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# JAMECO<sup>®</sup>

## ELECTRONICS

CATALOG 181  
FEBRUARY 2018

**SHAPING INNOVATION**

# FEATURED PRODUCTS

JAMECO ReliaPro

## AC-to-DC Regulated Switching Wall Adapters

Regulated Switching Wall Adapters on pages 91-93

- Input voltage: 100-240VAC @ 50-60Hz
- Approvals: UL
- Case color: black
- Center positive

\*Web Code: CDZ

NEW  
MARKED IN PINK

Part No.	Manufacturer	Output Rating		Output Connector (ID x OD) Female	Size (L" x W" x D")	CEC Level	Pricing		
		Voltage @ Current	Power (W)				1	10	50
2234601	Arndt	5V @ 1A†	5	2.1mm x 5.5mm	2.6 x 1.3 x 1.5	V	\$5.95	\$5.49	\$4.95
2234505	Arndt	5V @ 3A*	15	2.5mm x 5.5mm RA	2.8 x 1.8 x 1.3	V	7.95	6.95	6.25
2236498	ReliaPro	9V @ 0.5A*	4.5	2.1mm x 5.5mm	2.1 x 1.3 x .94	VI	8.95	7.95	7.49
2234100	ReliaPro	9V @ 1A*	9	2.1mm x 5.5mm	2.5 x 1.1 x 1.7	VI	10.95	9.95	8.95
2236463	Arndt	12V @ 0.5A	6	2.1mm x 5.5mm	2.3 x 1.5 x 1.3	IV	5.95	4.95	4.49
2233983	Arndt	12V @ 1A	12	2.1mm x 5.5mm	2.7 x 1.5 x 1.1	VI	10.95	9.95	8.95
2231662	ReliaPro	12V @ 1A	12	2.5mm x 5.5mm	2.7 x 1.6 x 1.1	VI	10.95	9.95	8.95
2231671	ReliaPro	12V @ 1.5A	18	2.5mm x 5.5mm	2.7 x 1.6 x 1.1	VI	12.95	11.49	10.95
2234054	Arndt	12V @ 2A	24	2.1mm x 5.5mm	2.7 x 1.7 x 1.2	—	9.95	8.95	7.95
2239189	ReliaPro	12V @ 3A	36	2.5mm x 5.5mm	3.9 x 1.7 x 1.2	VI	13.95	12.95	11.95

\*Slimline †10' cord



2234601



## Electronic Gadgets and Components

Adafruit is at the forefront of new technology and finds marvelous ways to integrate the best aspects of innovative devices into gadgets you can use every day. They also produce many components on break-out boards so you can experiment with unique tech and develop products of your own.

Electronic projects on pages 135-138

Part No.	Mfr. Part No.	Description	Price
2246338	419	3x4 matrix membrane keypad. 0-9 numbers, * and #. 7-pin, 0.1" pitch. Arduino Library available	\$4.95
2246354	1332	1x4 matrix membrane keypad. 1-4 numbers. 5-pin, 0.1" pitch. Adhesive backed.	4.95
2246362	3313	2" Kelvin clip. Ideal for low mV reference voltages. Electrically isolated jaws. 2" x 1" x 0.5"	4.95
2244922	3296	DS1307 Real Time Clock (RTC) breakout board. 5V, headers included, I <sup>2</sup> C 0x68. Use a CR1220 (not included)	7.95
2244869	2471	HUZZAH ESP8266 WiFi breakout board. 9xGPIO, 1x analog in (1.8V), 2xUART, FTDI header, 3.3V operation	9.95
2244421	3046	Feather HUZZAH MCU with ESP8266 WiFi & assembled headers. 9xGPIO, 0.1A LiPo charger 2.0" x 0.9" x 0.3"	19.95
2222432	772	16x2 LCD shield kit, white text on blue, 5 pushbuttons, uses 2 pins I <sup>2</sup> C (0x20 address)	19.95
2246813	495	Solder:Time DIY Wristwatch kit. Acrylic case, 4-digit 7-segment display, DS1337+, hackable	36.95
2237597	2769	Circuit Playground Express Educator's Pack. 2x MCUs & components. Microsoft MakeCode or Javascript	99.95
2246371	1287	10.1" IPS HDMI display for Raspberry Pi. 1280 x 800, 350cd/m <sup>2</sup> , 800:1 contrast. Use 9-12VDC	144.95



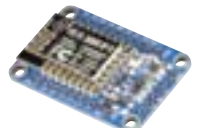
2246338



2246354



2244922



2244869



2244421

## Velleman Arduino-Compatible Boards & Sensors

I/O is a new line of low cost, open source Arduino-compatible products. Arduino hardware can interact with its environment using built-in and add-on sensors.

NEW  
MARKED IN PINK



2245482

Arduino & Sensors on pages 139-141

Part No.	Mfr. Part No.	Description	Price
2245351	VMA100	ATmega328 Uno development board, 5V, 14 dig. I/O	\$14.95
2245360	VMA102	ATmega328 nano development board, 5V, 14 dig. I/O	17.95
2245482	VMA501	DIY project kit w/ ATmega328 Uno dev. board & comps.	42.95
2245407	VMA306	HC-SR05 ultrasonic distance sensor, 15' max. 5-pin	4.95
2245458	VMA315	Dual axis analog joystick module w/ pushbutton (2-pack)	6.95
2245474	VMA412	2.8" 320 x 240 RGB touchscreen shield with µSD slot	19.95

## Weller Li-Ion Battery Powered Soldering Iron

Provides 45 minutes of continuous soldering and charges in about 3 hours. The ergonomic design of the co-molded cordless handle is design to be comfortable for extended use. It includes a stable heat shield base with built-in stand and LED illumination. 12-watt performance, up to 1070°F / 580°C

Soldering Irons on pages 122-123

NEW  
MARKED IN PINK



2246493

Part No.	Mfr. Part No.	Description	Price
2246493	BL60MP	12W solder iron	\$68.95
2246506	BL10	0.031" conical tip	9.95
2246522	BL12	0.047" conical tip	9.95
2246514	BL11	0.125" chisel tip	9.95



## BBC micro:bit

Pocket-sized code-able microcontroller designed to make learning and teaching easy and fun for all sorts of cool creations from robots to musical instruments.

- 32-bit ARM Cortex M0, 16k RAM, 16MHz
- Bluetooth Smart low energy antenna
- 2 programmable buttons, 3 D/A I/O, 25 SMD LED matrix, accelerometer, compass, light and temperature sensor, 20-pin edge connector.



Part No.	Mfr. Part No.	Size	Price
2246434	83-17934	1.97" x 1.57"	\$14.95



## ActivityBot 360° Robot Kit

- Free BlocklyProp online graphical software
- Feedback 360° high speed servos with built-in encoders
- Propeller Activity Board WX allows easy integration
- Includes DIY navigation sensors (touch, visible light, infrared and ultrasonic) and passive components
- Built-in microSD slot & includes 2GB microSD card

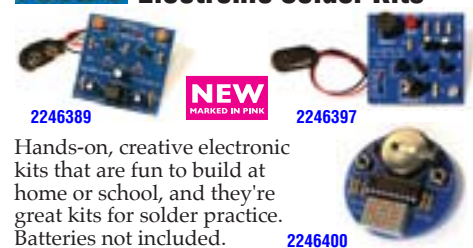
NEW  
MARKED IN PINK



Part No.	Mfr. Part No.	Power	Price
2237861	32600	5x AA bat. (not incl.)	\$199.95



## Electronic Solder Kits



Hands-on, creative electronic kits that are fun to build at home or school, and they're great kits for solder practice. Batteries not included.

Part No.	Description	Price
2246389	Electronic decision maker	\$10.95
2246397	Light activated burglar alarm	13.95
2246400	Micro LED Scrolling Marquee	37.95



# INNOVATION – AN AMERICAN IDEAL

Designers, engineers, and philosophers throughout time have extolled the circle as the perfect form – the paragon of balance, symmetry and efficiency. When an iconic technology company in Cupertino, California, designed its new headquarters in an “infinite loop,” the circle’s potential to combine form and function was realized. Apple Park was designed, to maximize opportunities, for collaboration among employees from all teams, where ideas can be freely shared and creativity is encouraged.

Jameco is proud to play a part in powering the innovation that is a hallmark of American technology. For you, we stand ready to support your projects and dreams in the coming year. We look forward to being at your service.

To see more photos of the new Apple Park, please visit [www.Jameco.com/ApplePark](http://www.Jameco.com/ApplePark).



Apple Park corporate headquarters

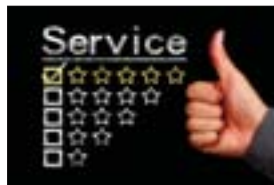
Photo by Maverick Solutions

## REACH FOR JAMECO FIRST

## The Jameco Difference

### Customer Service

We work hard to provide the best customer service in the industry. Our management team’s first priority is listening and responding to customer feedback. You can email the management team directly at [Management@Jameco.com](mailto:Management@Jameco.com) with your feedback and expect a prompt and personal response.



### Low Price Options

We’ve designed low prices into our process. Jameco carries three low-priced options from Brand Names, to Jameco’s House Brands to Jameco Special Buys. We are franchised distributors for over 300 Brand Name products and we actively price these products below our competitors. We also are famous for our Jameco House Brands (ValuePro, ReliaPro, BenchPro and KitPro) where we provide the same core functionality at a fraction of the price. We take low pricing a step further with our Special Buys. Look for green price coding throughout the catalog for our best priced products.



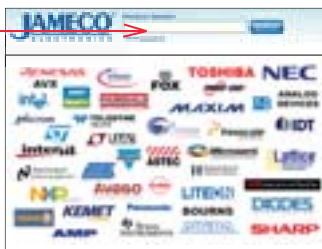
### Catalog Tools

Jump from catalog to

website seamlessly with Jameco’s exclusive Web Code: By simply entering the three character code into the [Jameco.com](http://Jameco.com) search box you’ll find more information, additional web-only products and the latest pricing and availability information. Don’t search; simply step from catalog to the website without missing a beat.

Enter the web code in the product search box

★ Network ICs — Enter Web Code JEQ



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# 7400, 74C, 74F, 74HC & 74HCT Series

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

Semiconductors

## 7400 Series

\*Web Code: XAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
48979	♦	7400**	DIP-14	Quad 2-input pos. NAND gate .....	\$1.29	\$1.09	\$.89
910901	♦	SN7400N	DIP-14	Quad 2-input pos. NAND gate .....	1.39	1.25	.95
49015	♦	7402*	DIP-14	Quad 2-input pos. NOR gate .....	1.95	1.75	1.49
49040	♦	7404**	DIP-14	Hex inverter .....	1.75	1.49	1.25
49074	♦	7405*	DIP-14	Hex schmitt-trigger inverter (O.C.) .....	1.59	1.39	1.09
49091	♦	7406*	DIP-14	Hex inverter buffer/driver .....	.79	.69	.55
49120	♦	7407**	DIP-14	Hex buffer/driver .....	.79	.69	.55
49146	♦	7408	DIP-14	Quad 2-input pos. AND gate .....	2.95	2.75	2.49
49189	♦	7410*	DIP-14	Triple 3-input pos. NAND gate .....	1.75	1.49	1.25
49402	♦	7413	DIP-14	Dual 4-input pos. NAND gate .....	1.95	1.75	1.49
49437	♦	7414*	DIP-14	Hex schmitt-trigger inverter .....	1.95	1.75	1.49
49630	♦	7416*	DIP-14	Hex inverter buffer/driver (O.C.) .....	1.59	1.39	1.09
49728	♦	7417*	DIP-14	Hex buffer/driver (O.C. hi-volt.) .....	1.39	1.19	.95
50008	♦	7420*	DIP-14	Dual 4-input NAND gate .....	1.19	1.09	.95
50139	♦	7427*	DIP-14	Triple 3-input NOR gate .....	1.09	.99	.89
50227	♦	7430*	DIP-14	8-input NAND gate .....	.89	.79	.69
50235	♦	7432*	DIP-14	Quad 2-input pos. OR gate .....	1.95	1.75	1.45
50315	♦	7438**	DIP-14	Quad 2-input NAND buffer .....	.99	.89	.75
50374	♦	7442	DIP-16	4 line BCD to 10 line decimal decoder .....	2.95	2.59	2.25
50403	♦	7445*	DIP-16	BCD-to-decimal decoder/driver .....	2.19	1.95	1.75
50420	♦	7447	DIP-16	BCD-to-7 seg. decoder/driver .....	2.75	2.49	2.25
50534	♦	7473	DIP-14	Dual J-K neg-edge-triggered flip-flop ...	3.95	3.59	3.29
50551	♦	7474*	DIP-14	Dual D type flip-flop .....	1.95	1.75	1.49
50577	♦	7475	DIP-16	4-bit bistable latch .....	2.95	2.59	2.29
50631	♦	7483	DIP-16	4-bit binary full adder .....	3.95	3.49	2.95
50657	♦	7485	DIP-16	4-bit magnitude comparator .....	2.95	2.59	2.29
50665	♦	7486	DIP-14	Quad 2-input exclusive OR gate .....	2.25	2.09	1.95
50681	♦	7489	DIP-16	64-bit read/write memory .....	3.95	3.75	3.49
50690	♦	7490	DIP-14	Asynchronous decade counter .....	3.95	3.59	3.29
50745	♦	7493	DIP-14	4-bit binary counter .....	2.25	1.95	1.75
50770	♦	7495*	DIP-14	4-bit parallel-access shift register ...	2.49	2.25	1.95
49234	♦	74107**	DIP-14	Dual J-K flip-flop with clear .....	1.19	1.09	.95
49322	♦	74121*	DIP-14	Monostable multivibrator .....	3.49	2.95	2.65
49357	♦	74123*	DIP-16	Dual monostable multivibrator .....	4.95	4.49	3.79
49509	♦	74150	DIP-24	1-of-16 data selector/multiplexer ...	3.95	3.59	3.29
49525	♦	74151*	DIP-16	1-of-8 data selector/multiplexer .....	.99	.89	.75
49550	♦	74153*	DIP-16	Dual 4-to-1 data selector/multiplexer .....	.89	.69	.59
49568	♦	74154	DIP-24	4-to-16 line decoder/demultiplexer ...	3.25	2.95	2.75
49605	♦	74157*	DIP-16	Quad 2-to-1 line data selector .....	.99	.89	.79
49664	♦	74161	DIP-16	4-bit synchronous binary counter .....	1.95	1.75	1.49
49681	♦	74164*	DIP-14	8-bit serial shift register .....	.99	.89	.79
49699	♦	74165*	DIP-16	8-bit serial shift register .....	.29	.25	.19
49779	♦	74174*	DIP-16	Hex D-type flip-flop with clear .....	1.09	.95	.79
49795	♦	74175**	DIP-16	Quad D-type flip-flop with clear .....	1.25	1.09	.99
49883	♦	74189	DIP-16	Tri-state 64-bit RAM .....	4.95	4.49	3.95
49912	♦	74192	DIP-16	Synch. 4-bit up/down decade counter ...	4.95	4.49	3.95
49939	♦	74193	DIP-16	Synch. 4-bit up/down binary counter ...	2.95	2.59	2.29
49955	♦	74194	DIP-16	4-bit bi-directional shift register .....	2.95	2.59	2.29
50286	♦	74367*	DIP-16	Tri-state hex bus driver .....	1.95	1.75	1.49

\*10 pcs./ \*\*20 pcs. in 7400 series IC cabinet kit, below right

## 74C Series

Please Note: Manufacturer may vary

\*Web Code: RAG

Part No.	Product No.	Pkg.	Description	1	10	100
44257	74C14	DIP-14	Hex schmitt-trig. inverter (CD40106) ..	\$2.75	\$2.49	\$2.25
44564	74C922	DIP-18	16-key keyboard encoder .....	10.95	9.95	8.95
44572	74C923	DIP-20	20-key keyboard encoder .....	9.95	8.95	7.95
44599	74C926	DIP-18	4-digit counter w/ 7-seg. output driver	13.95	12.95	11.95

## 74F Series

Please Note: Manufacturer may vary

\*Web Code: CEN

Part No.	Product No.	Pkg.	Description	1	10	100
286993	74F02	DIP-14	Quad 2-input pos. NOR gate .....	\$.59	\$.49	\$.39
287048	74F32N	DIP-14	Quad 2-input pos. OR gate .....	.59	.49	.29

## 74HC Series

\*Web Code: SDJ

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
45161	♦	74HC00	DIP-14	Quad 2-input pos. NAND gate ..	\$.45	\$.35	\$.19
45188	♦	74HC02	DIP-14	Quad 2-input pos. NOR gate .....	.45	.35	.19
45209	♦	74HC04	DIP-14	Hex inverter .....	.49	.39	.25
88081	♦	74HC05	DIP-14	Hex inverter (O.C.) .....	.45	.35	.19
45225	♦	74HC08	DIP-14	Quad 2-input pos. AND gate .....	.45	.35	.19
45364	♦	74HC14	DIP-14	Hex schmitt-trigger inverter .....	.49	.45	.25
45794	♦	74HC32	DIP-14	Quad 2-input pos. OR gate .....	.45	.35	.19
46130	♦	74HC74	DIP-14	Dual D-type flip-flop .....	.45	.35	.19
46181	♦	74HC86	DIP-14	Quad 2-input exclusive OR gate ...	.35	.29	.19
45305	♦	74HC125	DIP-14	Tri-state quad bus buffer .....	.39	.29	.19
45330	♦	74HC138	DIP-16	3-to-8 line decoder/demultiplexer ...	.39	.29	.19
45399	♦	74HC153	DIP-16	Dual 4-to-1 data selector/multiplexer	.45	.35	.25
45487	♦	74HC164	DIP-14	8-bit serial shift register .....	.35	.29	.17
251328	♦	SN74HC164N	DIP-14	8-bit serial shift register .....	.39	.29	.19
45495	♦	74HC165	DIP-16	8-bit parallel load shift register ...	.39	.29	.19
251336	♦	SN74HC165N	DIP-16	8-bit parallel load shift register ...	.45	.39	.25
45655	♦	74HC244	DIP-20	Tri-state octal buffer/line driver ...	.49	.39	.25
45743	♦	74HC273	DIP-20	Octal D-type flip-flop .....	.49	.39	.29
45831	♦	74HC373	DIP-20	Octal D-type transparent latch ....	.49	.35	.25
45858	♦	74HC374	DIP-20	Octal D-type flip-flop .....	.49	.35	.25
46050	♦	74HC541	DIP-20	Tri-state octal buffer/line driver ...	.59	.45	.29
46076	♦	74HC573	DIP-20	3-st. octal D-type transparent latch ...	.49	.39	.25
46084	♦	74HC574	DIP-20	Tri-state octal D-type flip-flop .....	.49	.39	.25
46105	♦	74HC595	DIP-16	8-bit shift register w/ output latch ...	.49	.39	.25
251643	♦	SN74HC595N	DIP-16	8-bit shift register w/ output latch ...	.55	.45	.29
911189	NXP	74HC595N	DIP-16	8-bit shift register w/ output latch ...	.79	.69	.59
45891	♦	74HC4017	DIP-16	Hi speed decade counter/divider ..	.49	.39	.25
251660	♦	CD74HC4017E	DIP-16	Hi speed decade counter/divider ..	.55	.45	.29
45920	♦	74HC4040	DIP-16	12-bit asynch. binary counter .....	.59	.49	.35
251707	♦	CD74HC4051E	DIP-16	Single 8-ch multi/demultiplexer ...	.55	.45	.29

## 74HCT Series

Please Note: Manufacturer may vary

\*Web Code: SAG

Part No.	Product No.	Pkg.	Description	1	10	100
44871	74HCT00	DIP-14	Quad 2-input pos. NAND gate .....	\$.45	\$.35	\$.25
44898	74HCT04	DIP-14	Hex inverter .....	.45	.35	.25
44901	74HCT08	DIP-14	Quad 2-input pos. AND gate .....	.45	.35	.25
44935	74HCT14	DIP-14	Hex schmitt-trigger inverter .....	.49	.45	.39
913299	74HCT32N	DIP-14	Quad 2-input OR gate, l-temp. ....	.49	.45	.39
45137	74HCT74	DIP-14	Dual D-type flip-flop .....	.45	.35	.25
45145	74HCT86	DIP-14	Quad 2-input exclusive OR gate .....	.65	.55	.45
44927	74HCT138	DIP-16	3-to-8 decoder/demultiplexer .....	.55	.49	.35
45014	74HCT240	DIP-20	Octal buffer/line driver .....	.49	.45	.35
45031	74HCT245	DIP-20	Tri-state octal bus transceiver .....	.65	.59	.49
45065	74HCT373	DIP-20	Octal D-type transparent latch .....	.49	.45	.35
45090	74HCT573	DIP-20	3-st. octal D-type transparent latch ...	.49	.39	.35
45102	74HCT574	DIP-20	Tri-state octal D-type flip-flop .....	.69	.59	.45
45129	74HCT688	DIP-20	8-bit magnitude comparator .....	.89	.79	.59

\*74AC/ACT/AHC/ALS Series Online — Enter Web Code CBA

\*ALVC Series Online — Enter Web Code SVC

## 7400 Series IC Kit

\*Web Code: CKS

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611) and 30 adhesive labels for drawers to identify parts in kit

10 each: 7402, 7405, 7406, 7410, 7414, 7416, 7417, 7420, 7427, 7430, 7432, 7437, 7445, 7495, 74121, 74123, 74151, 74153, 74157, 74164, 74165, 74174, 74367

20 each: 7400, 7404, 7438, 7474, 74107, 74125, 74175

Part No.	Description	Wt. (lbs.)	1	5
84953	350 pcs. 7400 IC kit	6.2	\$299.95	\$269.95



\* NXP = NXP/Philips Semiconductor | ♦ Major Brands



## 74LS Series

\* Web Code: NBS

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
46252	♦	74LS00**	DIP-14	Quad 2-input pos. NAND gate ....	\$.79	\$.69	\$.49
283725	♦	SN74LS00N	DIP-14	Quad 2-input pos. NAND gate .....	.99	.89	.65
46287	♦	74LS02**	DIP-14	Quad 2-input pos. NOR gate .....	.49	.39	.25
283741	♦	SN74LS02N	DIP-14	Quad 2-input pos. NOR gate .....	.59	.45	.29
46308	♦	74LS03	DIP-14	Quad 2-input pos. NAND gate (O.C.)	.69	.59	.39
46316	♦	74LS04**	DIP-14	Hex inverter .....	.59	.45	.35
283792	♦	SN74LS04N	DIP-14	Hex inverter .....	.65	.49	.39
46341	♦	74LS05*	DIP-14	Hex inverter (O.C.) .....	.79	.69	.49
46359	♦	74LS06	DIP-14	Hex inverter buffer/driver .....	.79	.69	.59
46367	♦	74LS07	DIP-14	Hex buffer/driver .....	.89	.79	.59
46375	♦	74LS08**	DIP-14	Quad 2-input pos. AND gate .....	.69	.59	.49
295401	♦	SN74LS08N	DIP-14	Quad 2-input pos. AND gate .....	.59	.49	.35
46404	♦	74LS10*	DIP-14	Triple 3-input pos. NAND gate .....	.69	.59	.39
46439	♦	74LS11*	DIP-14	Triple 3-input pos. AND gate .....	.69	.59	.39
46640	♦	74LS14*	DIP-14	Hex schmitt-trigger inverter .....	.55	.45	.29
47095	♦	74LS20*	DIP-14	Dual 4-input NAND gate .....	.79	.69	.59
47108	♦	74LS21	DIP-14	Dual 4-input AND gate .....	.59	.49	.35
47378	♦	74LS27	DIP-14	Triple 3-input NOR gate .....	.99	.79	.65
47458	♦	74LS30*	DIP-14	8-input NAND gate .....	.79	.69	.49
47466	♦	74LS32**	DIP-14	Quad 2-input pos. OR gate .....	.49	.39	.27
295515	♦	SN74LS32N	DIP-14	Quad 2-input pos. OR gate .....	.55	.45	.29
47693	♦	74LS38	DIP-14	Quad 2-input NAND buffer .....	.69	.59	.49
47773	♦	74LS42	DIP-14	4 line BCD to 10 line decimal decoder	2.09	1.75	1.49
47790	♦	74LS47*	DIP-16	BCD-to-7 seg. decoder/driver ....	1.59	1.39	1.15
295582	♦	SN74LS47N	DIP-16	BCD-to-7 seg. decoder/driver ....	1.75	1.49	1.19
47811	♦	74LS48	DIP-16	BCD-to-7 seg. decoder/driver ....	5.95	5.39	4.79
47992	♦	74LS73*	DIP-14	Dual J-K neg-edge-triggered flip-flop	1.79	1.59	1.29
48004	♦	74LS74**	DIP-14	Dual D-type flip-flop .....	.49	.39	.25
295726	♦	SN74LS74AN	DIP-14	Dual D-type flip-flop .....	.55	.45	.29
48021	♦	74LS75*	DIP-16	4-bit bi-stable latch .....	1.89	1.59	1.29
48063	♦	74LS83	DIP-16	4-bit binary full adder .....	2.95	2.59	2.29
48071	♦	74LS85*	DIP-16	4-bit magnitude comparator .....	1.19	.99	.79
48098	♦	74LS86*	DIP-14	Quad 2-input exclusive OR gate ..	1.19	1.09	.95
295751	♦	SN74LS86AN	DIP-14	Quad 2-input exclusive OR gate ..	1.39	1.25	1.09
48119	♦	74LS90*	DIP-14	Asynchronous decade counter ...	1.95	1.59	1.45
48143	♦	74LS92	DIP-14	Divide-by-12 decade counter .....	2.49	2.19	1.85
48151	♦	74LS93	DIP-14	4-bit binary counter .....	1.75	1.59	1.29
46412	♦	74LS107	DIP-14	Dual J-K flip-flop with clear .....	1.75	1.49	1.25
46421	♦	74LS109	DIP-16	Dual J-K bar flip-flop .....	1.19	1.09	.89
46447	♦	74LS112	DIP-16	Dual J-K neg-edge-triggered flip-flop	.69	.59	.39
46471	♦	74LS122	DIP-14	Retriggerable monostable multivib.	.99	.79	.59
46480	♦	74LS123*	DIP-16	Dual monostable multivibrator .....	.69	.59	.39
46501	♦	74LS125*	DIP-14	Tri-state quad bus buffer .....	.69	.55	.39
46527	♦	74LS126	DIP-14	Tri-state quad bus buffer .....	.69	.59	.39
46551	♦	74LS132	DIP-14	Quad 2-input NAND schmitt trigger	.69	.55	.49
46607	♦	74LS138*	DIP-16	3-to-8 decoder/demultiplexer .....	.69	.59	.39
301233	♦	SN74LS138N	DIP-16	3-to-8 decoder/demultiplexer .....	.79	.65	.45
46623	♦	74LS139*	DIP-16	Dual 2-to-4 decoder/demultiplexer	.69	.59	.39
46666	♦	74LS145	DIP-16	BCD-to-decimal decoder/driver .....	.89	.75	.59
46682	♦	74LS148	DIP-16	8-to-3 line priority encoder .....	1.19	.99	.79
46703	♦	74LS151*	DIP-16	1-to-8 data selector/multiplexer ...	.79	.69	.55
46720	♦	74LS153	DIP-16	Dual 4-to-1 data selector/multiplexer	.79	.69	.55
46754	♦	74LS155*	DIP-16	Dual 2-to-4 line decoder/demultiplexer	1.29	1.09	.89
46771	♦	74LS157*	DIP-16	Quad 2-to-1 line data selector .....	.69	.59	.39
46800	♦	74LS160	DIP-16	Synchronous decade counter .....	2.49	2.25	2.05
46818	♦	74LS161	DIP-16	4-bit synchronous binary counter ..	.79	.65	.45
46842	♦	74LS163	DIP-16	Synchronous 4-bit binary counter ..	.69	.59	.39
46851	♦	74LS164	DIP-14	8-bit serial shift register .....	.69	.59	.49
46877	♦	74LS165	DIP-16	8-bit parallel load shift register ..	.65	.49	.39

\* 10 pcs./ \*\* 20 pcs. in 74LS series IC cabinet kit, right

♦ Major Brands

## 74LS Series (Continued)

\* Web Code: NBS

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
46906	♦	74LS169	DIP-16	Synch. 4-bit binary up/down counter	\$1.39	\$1.19	\$.99
46922	♦	74LS173*	DIP-16	4-bit D-type register w/ 3-state output	1.39	1.19	.79
46931	♦	74LS174*	DIP-16	Hex D-type flip-flop with clear .....	.49	.39	.35
46957	♦	74LS175*	DIP-16	Quad D-type flip-flop with clear ....	.79	.69	.49
46973	♦	74LS181	DIP-24	Arithmetic logic unit/function generator	4.95	4.49	3.95
46990	♦	74LS190	DIP-16	Synchronous up/down decade counter	3.95	3.59	3.29
47001	♦	74LS191	DIP-16	Synch. 4-bit up/down binary counter	.89	.79	.59
47010	♦	74LS192	DIP-16	Synch. 4-bit up/down decade counter	3.95	3.59	3.25
47036	♦	74LS193	DIP-16	Synch. 4-bit up/down binary counter	.89	.79	.69
47052	♦	74LS194	DIP-16	4-bit bi-directional shift register	1.29	1.09	.89
47061	♦	74LS195	DIP-16	4-bit parallel-access shift register	1.95	1.75	1.49
47141	♦	74LS240*	DIP-20	Octal buffer/line driver .....	.69	.59	.49
47167	♦	74LS241	DIP-20	Tri-state octal buffer/line driver .....	.69	.59	.49
47183	♦	74LS244*	DIP-20	Tri-state octal buffer/line driver ....	.79	.69	.59
308312	♦	SN74LS244N	DIP-20	Tri-state octal buffer/line driver ....	.79	.69	.55
47212	♦	74LS245*	DIP-20	Tri-state octal bus transceiver .....	.79	.69	.55
47247	♦	74LS247	DIP-16	BCD to 7-seg. decoder/driver .....	1.75	1.49	1.19
47298	♦	74LS257B**	DIP-16	Tri-state quad 2-data selector/m ..	.79	.69	.55
47327	♦	74LS259	DIP-16	8-bit addressable latch .....	.99	.89	.69
47360	♦	74LS266	DIP-14	Quad 2-input exclusive NOR gate (O.C.)	.99	.89	.69
47386	♦	74LS273*	DIP-20	Octal D-type flip-flop .....	.75	.65	.49
47407	♦	74LS279	DIP-16	Quad S-R latch .....	.99	.89	.79
47423	♦	74LS283	DIP-16	4-bit binary full add w/ fast carry	2.95	2.59	2.29
47562	♦	74LS367	DIP-16	Tri-state hex buffer .....	.99	.89	.69
309286	♦	74LS368	DIP-16	Tri-state hex bus driver .....	1.19	.89	.59
47600	♦	74LS373*	DIP-20	Octal D-type transparent latch .....	.69	.59	.45
308460	♦	SN74LS373N	DIP-20	Octal D-type transparent latch .....	.79	.69	.49
47634	♦	74LS374*	DIP-20	Octal D-type flip-flop .....	.79	.69	.45
47669	♦	74LS377	DIP-20	Octal D-type flip-flop .....	1.29	1.09	.89
47722	♦	74LS390	DIP-16	Dual 4-bit decade counter .....	1.19	.99	.79
47731	♦	74LS393	DIP-14	Dual 4-bit binary counter .....	1.09	.89	.75
47870	♦	74LS541	DIP-20	Tri-state octal buffer/line driver ....	.95	.89	.75
64418	♦	74LS573	DIP-20	Tri-state octal D-type flip flop .....	1.95	1.49	1.25
47976	♦	74LS670	DIP-16	4 x 4 register file .....	1.95	1.75	1.49
309260	♦	74LS682	DIP-20	8-bit magnitude/identity comp. ...	1.95	1.75	1.49

\* 10 pcs./ \*\* 20 pcs. in 74LS series IC cabinet kit, below

## 74LS Series IC Kit

\* Web Code: CKS

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611) and 30 adhesive labels for drawers to identify parts in kit



**10 each:** 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30, 74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90, 74LS123, 74LS125, 74LS138, 74LS139, 74LS151, 74LS155, 74LS157, 74LS173, 74LS174, 74LS175, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374, 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS257

Part No.	Description	Wt. (lbs.)	1	5
84961	420 pcs. 74LS IC kit	6.7	\$229.95	\$209.95
130391	Refill for 84961 (420 pcs.)	2.0	214.95	199.95

## 74S Series

Please Note: Manufacturer may vary

\* Web Code: NCK

Part No.	Product No.	Pkg.	Description	1	10	100
676959	74S00	DIP-14	Quad 2-input NAND gate .....	\$.39	\$.29	\$.25
48266	74S02	DIP-14	Quad 2-input NOR gate .....	.25	.19	.15
48750	74S32	DIP-14	Quad 2-input positive OR gate .....	.29	.19	.15
676991	74S74	DIP-14	Dual D-type flip flop .....	.59	.49	.39
677003	74S138	DIP-16	3 to 8 decoder/demultiplexer .....	.49	.45	.39
48506	74S175	DIP-16	Quad D-type flip flop with clear .....	.49	.45	.39
64696	74S194	DIP-16	4-bit bi-directional shift register .....	.45	.35	.29
48776	74S374J	DIP-20	Dual D-type flip flop .....	.49	.39	.29
52513	74S428	DIP-28	System controller/bus driver (8228) .....	4.95	4.49	3.95



\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# 4000, 5000, 6500, 6800/68000 & 8000 Series

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## 4000 Series

\* Web Code: WAA

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
12562	+	CD4001**	DIP-14	Quad 2-input NOR gate	\$.45	\$.39	\$.25
12597	+	CD4007	DIP-14	Dual complimentary pair plus inv.	.45	.39	.25
12634	+	CD4011**	DIP-14	Quad 2-input NAND gate	.45	.39	.25
893283	+	CD4011BE	DIP-14	Quad 2-input NAND gate	.49	.39	.25
12677	+	CD4013**	DIP-14	Dual D-type flip-flop	.45	.35	.22
893443	+	CD4013BE	DIP-14	Dual D-type flip-flop	.49	.39	.25
12706	+	CD4015*	DIP-16	Dual 4-stage static shift register	.49	.45	.29
12722	+	CD4016*	DIP-14	Quad bilateral switch	.45	.39	.25
12749	+	CD4017*	DIP-16	Decade counter/divider	.45	.35	.22
893611	+	CD4017BE	DIP-16	Decade counter/divider	.49	.39	.25
12802	+	CD4020*	DIP-16	14-st. ripple carry binary counter	.49	.39	.25
12829	+	CD4021	DIP-16	8-stage static shift register	.49	.39	.29
12845	+	CD4023*	DIP-14	Triple 3-input NAND gates	.45	.39	.25
12853	+	CD4024*	DIP-14	7-stage ripple carry binary counter	.45	.39	.25
353560	+	CD4026	DIP-16	Decade counter/divider	.49	.39	.25
12888	+	CD4027*	DIP-16	Dual J-K master/slave flip-flop	.49	.39	.25
12909	+	CD4028	DIP-16	BCD-to-decimal decoder	.49	.39	.25
12925	+	CD4029	DIP-16	Preset up/down binary counter	.49	.39	.25
12950	+	CD4040*	DIP-16	12-stage binary/ripple counter	.49	.39	.25
13012	+	CD4046*	DIP-16	Micropower phase lock loop	.55	.45	.29
13039	+	CD4047	DIP-14	Monostable/astable multivibrator	.49	.39	.29
13055	+	CD4049**	DIP-16	Hex inverting buffer/converter	.45	.39	.25
13071	+	CD4050*	DIP-16	Hex non-inverting buffer/converter	.49	.39	.25
13098	+	CD4051*	DIP-16	Single 8-ch analog multiplexer	.45	.29	.22
894391	+	CD4051BE	DIP-16	Single 8-ch analog multiplexer	.49	.39	.25
13119	+	CD4052	DIP-16	Dual 4-ch analog multiplexer	.49	.39	.25
13151	+	CD4060	DIP-16	14-st. ripple carry binary counter	.49	.39	.25
13186	+	CD4066**	DIP-14	Quad bilateral switch	.45	.39	.25
13231	+	CD4069*	DIP-14	Hex inverters (74C04)	.45	.35	.22
894761	+	CD4069UBE	DIP-14	Hex inverters	.49	.39	.25
13258	+	CD4070*	DIP-14	Quad 2-input exclusive OR gate	.49	.39	.25
13274	+	CD4071*	DIP-14	Quad 2-input OR gate	.45	.39	.25
676078	+	CD4072	DIP-14	Dual 4-input OR gate	.49	.45	.29
676086	+	CD4073	DIP-14	Triple 3-input AND gate	.45	.39	.25
676094	+	CD4075	DIP-14	Triple 3-input OR gate	.45	.39	.25
676107	+	CD4077	DIP-14	Quad exclusive NOR gate	.45	.39	.25
13354	+	CD4081*	DIP-14	Quad 2-input AND gate	.45	.39	.25
676123	+	CD4082	DIP-14	Dual 4-input AND gate	.45	.39	.25
13400	+	CD4093*	DIP-14	Quad 2-input NAND schmitt trig.	.45	.35	.22
818873	+	CD4093BE	DIP-14	CMOS 2-input NAND gate	.49	.39	.25
870807	NSC	CD4093BCN	DIP-14	Quad 2-input NAND schmitt trig.	.79	.69	.59
13426	+	CD4094	DIP-16	8-bit shift register with latch	.49	.42	.25
13485	+	CD4510	DIP-16	BCD presettable up/down counter	.55	.45	.29
13493	+	CD4511*	DIP-16	BCD to 7-segment latch/decoder/driver	.45	.39	.25
895377	+	CD4511BE	DIP-16	BCD to 7-segment latch/decoder/driver	.55	.45	.29
13565	+	CD4518	DIP-16	Dual BCD up counter	.55	.49	.25
2179008	+	CD4519B	DIP-16	Logic MUX	.29	.22	.15
13581	+	CD4520	DIP-16	Dual binary up counter	.55	.45	.29
13611	+	CD4528	DIP-16	Dual monostable multivibrator	.99	.89	.79
13653	+	CD4538*	DIP-16	Dual monostable multivibrator	2.25	1.95	1.75
13696	+	CD4543*	DIP-16	BCD to 7-segment decoder driver	.49	.39	.25
893179	+	CD40106BE	DIP-14	Hex schmitt trigger	.49	.39	.25
2178988	+	CD40163B	DIP-16	Synch. programmable 4-bit counter	.25	.19	.15

\* 10 pcs./\*\* 20 pcs. in 4000 series IC cabinet kit, \*below

## 4000 Series CMOS IC Kit

\* Web Code: CKS

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611) and 30 adhesive labels for drawers to identify parts in kit

10 each: CD4015, CD4016, CD4017, CD4020, CD4023, CD4024, CD4027, CD4040, CD4046, CD4050, CD4051, CD4069, CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584

20 each: CD4001, CD4011, CD4013, CD4049, CD4066

Part No.	Description	Wt. (lbs.)	1	5
84970	300 pcs. 4000 series CMOS IC kit	6.1	\$89.95	\$79.95
130403	Refill for 84970 (300 pcs.)	1.4	74.95	67.95



## 5000 Series & Clock Chips

\* Web Code: RAE

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
32803	+	TCM5089N	DIP-16	Touch tone generator	\$4.95	\$4.49
27422	+	LM555CN**	DIP-8	Timer	.29	.22
126797	+	LMC555CN*	DIP-8	CMOS timer	.69	.59
24328	+	LM5556N*	DIP-14	Dual timer	.45	.35
10567	AMD	AM9513APC*	DIP-40	Real time clock	24.95	21.95
2146433	CSS	CSS555-ID	DIP-8	Programmable timer	1.95	1.75
2146450	CSS	CSS555C-ID	DIP-8	Programmable timer w/ internal cap	2.49	2.25
2146425	CSS	CSS555-IS	SOIC-8	Programmable timer	1.49	1.25
1392878	ST	MAT28-BR12SH1	SOIC-28	Battery/crystal snapat	4.95	4.49

\* 10 pcs./\*\* 20 pcs. included in Linear cabinet kit, pg 8 ★ Pull = Extra Savings

\* Clock Management — Enter Web Code CMS

\* Digital Signal Processing — Enter Web Code CEQ

## 6500 Series

\* Web Code: NAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
43191	+	6502*	DIP-40	CPU, 8-bit, 1MHz	\$5.95	\$5.49
43318	+	6551*	DIP-28	Asynch. comm. interface adapter, 1MHz	3.95	3.59

★ Pull = Extra Savings



## 6800/68000 CMOS

\* Web Code: SBP

Part No.	Mfr.	Part No.	Pkg.	Description	1	10
248604		MC68HC11E1CFN3	PLCC-52	MCU, 8-bit, 38 I/O, 3MHz	\$8.95	\$7.95
248575		MC68HC711E9CFN2	PLCC-52	MCU, 8-bit, 38 I/O, 2MHz	23.95	21.95

## 6800/68000 N-MOS

\* Web Code: PAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
43481	+	6800*	DIP-40	CPU, 8-bit, 5V, 2MHz	\$4.95	\$4.49
43502	+	6802*	DIP-40	CPU, 8-bit, 5V, 1MHz	7.95	6.95
43537	+	6808*	DIP-40	CPU, 8-bit, 7V, 1MHz	6.95	5.95
43545	+	6809E	DIP-40	CPU, 8-bit, 7V, 1MHz	4.95	4.49
320590	+	68B09E*	DIP-40	CPU, 8-bit, 7V, 2MHz	3.95	3.49
43561	+	6810*	DIP-24	SRAM, 1K-bit, 5V, 1MHz	3.49	3.25
43596	+	6821*	DIP-40	Peripheral inter. adapter, 8-bit, 7V, 1MHz	3.95	3.49
43414	+	68B21	DIP-40	Peripheral inter. adapter, 8-bit, 7V, 1MHz	4.95	4.49
43633	+	6850*	DIP-24	Asynch. comm. int. adapter, 8-bit, 7V, 1MHz	4.49	3.95

★ Pull = Extra Savings

## 8000 Series

Please Note: Manufacturer may vary

\* Web Code: CAH

Part No.	Product No.	Pkg.	Description	1	10	100
51676	80C31*	DIP-40	MCU, 8-bit, 32 I/O, 24MHz, CMOS	\$3.25	\$2.95	\$2.75
876096	P80C31BH-1	DIP-40	MCU, 8-bit, 32 I/O, 16MHz, CMOS	3.95	3.49	3.25
51861	8035*	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	1.49	1.25	.95
52046	8080A*	DIP-40	CPU, 8-bit, 16 I/O, 1MHz	4.49	4.25	3.95
52062	8085AH*	DIP-40	CPU, 8-bit, 16 I/O, 3MHz	3.95	3.75	3.49
52071	8085AH-2*	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	3.95	3.49	2.95
52142	8088*	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	3.95	3.49	2.95
52290	8155*	DIP-40	I/O port timer, 2K-bit, 3MHz	3.95	3.49	2.95
52302	8155-2*	DIP-40	Static MOS RAM, 2K-bit, 3 I/O, 5MHz	4.49	3.95	3.49
52468	8212*	DIP-24	I/O port timer, 8-bit, 3MHz	4.95	4.49	3.95
52492	8224*	DIP-16	Clock generator/driver	4.95	4.49	3.95
52513	8228	DIP-28	System controller/bus driver	4.95	4.49	3.95
52581	8243*	DIP-24	I/O expander, 5V, MIL. temp	2.95	2.75	2.25
52652	8251A*	DIP-28	Prog. communications interface	3.49	3.25	2.95
52370	82C51A*	DIP-28	USART, 3V to 6V, CMOS	3.49	3.09	2.75
52687	8253-5*	DIP-24	Prog. interval timer, 5MHz	2.95	2.75	2.49
52716	8254-2*	DIP-24	Prog. interval timer, 10MHz	2.95	2.75	2.49
52409	82C54-2*	DIP-24	Prog. interval timer, 10MHz, CMOS	3.95	3.49	2.95
52396	82C54*	DIP-24	Prog. interval timer, 8MHz, CMOS	3.95	3.59	3.25
52724	8255*	DIP-40	CPU peripheral, 2MHz	4.49	3.95	3.49
52732	8255A-5*	DIP-40	CPU peripheral, 4MHz (300ns)	4.75	4.25	3.75
291805	8255AC-5	DIP-40	CPU peripheral, 4MHz (250ns)	3.95	3.75	3.49

★ Pull = Extra Savings

\* AMD = Advanced Micro | CSS = Custom Silicon Solutions | NSC = National Semi | ST = ST Micro | + Major Brands



# 8000 Series, Z80 MPUs, EPROMs, UARTs, EEPROMs & Memory

## 8000 Series (Continued) Please Note: Manufacturer may vary **\* Web Code: CAH**

Part No.	Product No.	Pkg.	Description	1	10	100
2227268	8255AC-2	DIP-40	CPU peripheral, 5MHz (250ns)	\$3.95	\$3.49	\$2.95
52417	82C55A★	DIP-40	CPU peripheral, 8MHz, CMOS	4.49	3.95	3.49
52759	8256★	DIP-40	Multi func. uproc. support controller	12.95	11.95	9.95
52775	8259★	DIP-28	Programmable interrupt controller	2.49	2.25	1.95
52839	8279★	DIP-40	CPU peripheral, 5MHz	8.95	8.25	7.49
52871	8284A★	DIP-18	Clock generator/driver, 8MHz	3.95	3.49	3.25
53031	8748H+	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	10.95	9.95	8.95

★ Pull = Extra Savings + Refurbished = Backed by Jameco

## Z80 MPUs Please Note: Manufacturer may vary **\* Web Code: JAF**

Part No.	Product No.	Pkg.	Description	1	10
35561	Z80★	DIP-40	2.5MHz CPU (MK3880N/780C)	\$2.49	\$2.25
35596	Z80A★	DIP-40	4MHz CPU (MK3880N-4/780C-1)	2.95	2.75
35609	Z80A-CTC★	DIP-28	4MHz counter timer circuit (MK3882-4)	1.95	1.75
61786	Z85C3008PS	DIP-40	Serial communications controller	2.49	2.25

★ Pull = Extra Savings

## EPROMs **\* Web Code: XAF**

Part No.	*Mfr.	Product No.	Pkg.	Config.	Description	1	10	100
40002	+	2716+	DIP-24	2k x 8	450ns, 5V	\$3.95	\$3.75	\$3.49
40011	+	2716-1+	DIP-24	2k x 8	350ns, 5V	3.49	2.95	2.49
308662	+	2716A-2	DIP-24	2k x 8	200ns, 5V	3.95	3.75	3.49
40096	+	2732+	DIP-24	4k x 8	450ns, 5V	5.95	5.49	3.95
40133	+	2732A-45+	DIP-24	4k x 8	450ns, 5V	3.95	3.75	3.49
40125	+	2732A-25+	DIP-24	4k x 8	250ns, 5V	4.95	4.49	3.95
40109	+	2732A-20+	DIP-24	4k x 8	200ns, 5V	5.49	4.95	4.49
266001	+	27C32-150+	DIP-24	4k x 8	150ns, 5V	4.95	4.49	4.25
40192	+	2764-20+	DIP-28	8k x 8	200ns, 5V	4.25	3.95	3.75
40230	+	2764A-20+	DIP-28	8k x 8	200ns, 5V	4.25	3.95	3.75
39829	+	27C64-15+	DIP-28	8k x 8	150ns, 5V	4.25	3.95	3.75
698322	ST	M27C64A-15F1	FDIP-28	8k x 8	150ns, 5V (±10%)	5.95	5.49	5.25
105304	+	27C64-12+	DIP-28	8k x 8	120ns, 5V	4.49	4.25	3.85
266036	+	27C64-100	DIP-28	8k x 8	100ns, 5V	4.95	4.55	4.05
39984	+	27128A-25+	DIP-28	16k x 8	250ns, 5V	2.95	2.49	1.95
39950	+	27128A-15+	DIP-28	16k x 8	150ns, 5V	2.95	2.75	2.49
39685	+	27C128-25+	DIP-28	16k x 8	250ns, 5V	3.75	3.49	3.25
101101	+	27C128-20+	DIP-28	16k x 8	200ns, 5V	3.49	3.25	2.95
87935	+	27C128-12+	DIP-28	16k x 8	120ns, 5V	4.49	4.25	3.95
39731	+	27C256-25+	DIP-28	32k x 8	250ns, 5V	2.35	2.15	1.85
39722	+	27C256-20+	DIP-28	32k x 8	200ns, 5V	2.55	2.25	1.95
39714	+	27C256-15+	DIP-28	32k x 8	150ns, 5V	2.75	2.49	2.25
698111	ST	M27C256B-15F1	FDIP-28	32k x 8	150ns, 5V	3.95	3.49	3.25
698091	ST	M27C256B-12F1	FDIP-28	32k x 8	120ns, 5V	4.25	3.75	3.49
112740	+	27C256-10+	DIP-28	32k x 8	100ns, 5V	3.75	3.25	2.95
698082	ST	M27C256B-10F1	FDIP-28	32k x 8	100ns, 5V	4.49	3.95	3.59
140476	+	27C256-70+	DIP-28	32k x 8	70ns, 5V	4.49	3.95	3.59
266079	+	27C256-55	DIP-28	32k x 8	55ns, 5V	3.95	3.49	3.25
39781	+	27C512-15+	DIP-28	64k x 8	150ns, 5V	2.75	2.49	2.25
698234	ST	M27C512-15F1	FDIP-28	64k x 8	150ns, 5V	4.19	3.95	3.75
39773	+	27C512-12+	DIP-28	64k x 8	120ns, 5V	2.95	2.75	2.49
698226	ST	M27C512-12F1	FDIP-28	64k x 8	120ns, 5V	4.95	4.49	3.95
131959	+	27C512-10+	DIP-28	64k x 8	100ns, 5V	2.95	2.75	2.49
203625	+	27C512-70	DIP-28	64k x 8	70ns, 5V	3.95	3.75	3.49
203641	+	27C1024-12	DIP-40	64k x 16	120ns, 5V	2.95	2.75	2.49
697987	ST	M27C1001-15F1	FDIP-32	128k x 8	150ns, 5V	4.95	4.75	4.49
74624	+	27C010-12+	DIP-32	128k x 8	120ns, 5V	2.95	2.75	2.49
697961	ST	M27C1001-12F1	FDIP-32	128k x 8	120ns, 5V	5.95	5.49	5.25
697944	ST	M27C1001-10F1	FDIP-32	128k x 8	100ns, 5V	4.75	4.49	4.25
146149	+	27C010-70+	DIP-32	128k x 8	70ns, 5V	3.75	3.49	3.25
65699	+	27C020-15+	DIP-32	256k x 8	150ns, 5V	3.25	2.95	2.75
698031	ST	M27C2001-12F1	FDIP-32	256k x 8	120ns, 5V	5.95	5.49	4.95
85462	+	27C040-15+	DIP-32	512k x 8	150ns, 5V	4.49	4.25	3.95
266124	+	27C040-70	DIP-32	512k x 8	70ns, 5V	4.95	4.75	4.49

+ Refurbished = Backed by Jameco † FDIP = Ceramic frit seal

## UARTs Please Note: Manufacturer may vary **\* Web Code: MAG**

Part No.	Product No.	Pkg.	Description	1	10
43158	6402★	DIP-40	5V CMOS	\$3.95	\$3.49
288809	TL16C550CN	DIP-40	1-channel w/ 16-byte FIFO, 5V	3.95	3.49

★ Pull = Extra Savings

## EEPROMs Please Note: Manufacturer may vary **\* Web Code: GAM**

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
74691	28C16A-25	DIP-24	2k x 8	Page parallel, 5V	\$3.95	\$3.75	\$3.49
74827	28C64A-25	DIP-28	8k x 8	Page parallel, 5V	3.75	3.49	3.25
200580	24C256-10	DIP-8	32k x 8	2-wire serial, 2-5V	.59	.49	.29
74878	28C256-25	DIP-28	32k x 8	Page parallel, 5V	2.95	2.75	2.49
74843	28C256-15	DIP-28	32k x 8	Page parallel, 5V	5.49	5.25	4.49

**\* Low Profile IC Sockets — Enter Web Code QAF**

**\* Network ICs — Enter Web Code JEQ**

## Static RAM **\* Web Code: WAF**

Part No.	*Mfr.	Product No.	Pkg.	Config.	Description	1	10
1847596	CAT	CAT22C10PIT-30	DIP-18	64 x 4	256-bit, 5V, 300ns	\$ .99	\$ .89
42198	+	5101★	DIP-22	256 x 4	1-Kbit, 5V, 450ns	6.95	6.49
38957	+	2114N	DIP-18	1k x 4	4-Kbit, 5V, 450ns	2.25	1.95
38973	+	2114N-2	DIP-18	1k x 4	4-Kbit, 5V, 200ns	2.25	1.95
25911	+	MK48202B-15	DIP-24	2k x 8	16-Kbit, 5V, 150ns, NV	6.95	6.49
42809	+	6116P-3N★	DIP-24	2k x 8	16-Kbit, 5V, 150ns	1.75	1.55
42788	+	6116P-1★	DIP-24	2k x 8	16-Kbit, 5V, 100ns	1.95	1.75
242675	+	6116-70	DIP-24	2k x 8	16-Kbit, 5V, 70ns	2.25	1.95
85121	+	6264LP-70	DIP-28	8k x 8	64-Kbit, 5V, 70ns, LP	3.75	3.49
42884	+	6264LP-10★	DIP-28	8k x 8	64-Kbit, 5V, 100ns, LP	2.95	2.75
42930	+	6264P-12★	DIP-28	8k x 8	64-Kbit, 5V, 120ns, LP	2.25	1.95
242376	+	CY7C199P-35	DIP-28	32k x 8	256-Kbit, 5V, 35ns, LP Asynch...	1.95	1.75
177113	DAL	DS1230Y-100	DIP-28	32k x 8	256-Kbit, 5V, 100ns, NV	17.95	15.95
114323	DAL	DS1230Y-150	DIP-28	32k x 8	256-Kbit, 5V, 150ns, NV	15.95	14.95
41970	+	43256-10L★	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP	2.95	2.75
82472	+	62256LP-70	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	2.49	2.25
391793	CPS	CY62256L-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns	3.49	3.25
391822	CPS	CY62256L-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	3.49	3.25
42850	+	62256LP-12★	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP	1.75	1.49
131810	+	628128LP-70	DIP-32	128k x 8	1-Mbit, 5V, 70ns, LP	5.95	5.49
242448	+	BS62LV4006PIP-55	PDIP-32	512k x 8	4M LP, 55ns, 2.4-5.5V, I-temp	15.95	13.95
157358	+	628512LP-70	DIP-32	512k x 8	4-Mbit, 5V, 70ns, LP	12.95	10.95

★ Pull = Extra Savings

## DRAM Please Note: Manufacturer may vary **\* Web Code: DRM**

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
41339	4116-15	DIP-16	16k x 1	150ns (MM5290J-1R)	\$ .99	\$ .89	\$ .79
41662	4164-150★	DIP-16	64k x 1	150ns (MCM6665-15)	.99	.89	.79
41574	41464-10★	DIP-18	64k x 4	100ns (HY53C464S-10)	1.69	1.59	1.45
41398	41256-120	DIP-16	256k x 1	120ns (MB81256-12)	.79	.69	.59

★ Pull = Extra Savings

## IC Anti-Static Accessories **\* Web Code: XAA**

					* Order in multiples of 10		
Part No.	Product No.	Description	1	10	100		
13864	CF2	Conductive foam (12" x 24" x .25") hard black	\$12.95	\$11.95	\$10.95		
29516	RIC20#	.300" anti-static rail for 8, 14, 16, 18, 20 & 22-pin ICs	.29	.25	.22		
29524	RIC220#	.600" anti-static rail for 24, 28, 36 & 40-pin ICs	.29	.25	.22		
29583	RRS	Storage tube rubber stopper	*	.09	.07		

# Previously used

**Additional Anti-Static Products, IC Accessories & Tools see page 121**

**\* Zilog Flash MCUs — Enter Web Code JAF**

**\* MPUs — Enter Web Code MPT**

**\* Universal Programmers and Adapters — Enter Web Code SUP**

\* CAT = Catalyst | CPS = Cypress Semiconductor | DAL = Dallas Semiconductor | ST = ST Micro | + Major Brands

**\* For additional products, availability and specifications visit [Jameco.com](http://www.Jameco.com) and enter the Web Code in the product search box**

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# Microcontrollers, PAL/GALs, BASIC Stamps & Servo Controllers



## Dallas Semiconductors

★ Web Code: QDH

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
114198	DS1210	DIP-8	NV controller chip	\$4.25	\$3.59	\$3.19
114219	DS1213C	DIP-28	Smart socket	24.95	22.95	19.95
133410	DS1216C*	DIP-28	Smart watch/RAM	19.95	17.95	16.95
114331	DS1232LP	DIP-8	Micromonitor chip	3.95	3.59	2.95
697231	DS1243Y-120+	DIP-28	64k NV SRAM w/ phantom clock	19.95	18.95	17.95
176778	DS1302	DIP-8	Trickle charge time keeping	3.25	2.95	2.49
1194679	DS1307+	DIP-8	5V, 64 x 8 serial I2C real time clock, C-temp	2.95	2.49	1.95
1194695	DS1307N+	DIP-8	5V, 64 x 8 serial I2C real time clock, I-temp	3.49	3.19	2.75
114382	DS1620	DIP-8	Digital thermometer and thermostat	5.95	5.59	5.25
865936	DS18B20+	TO-92	Prog. resolution 1-wire digital thermometer	2.75	2.59	2.49
133452	DS12887	DIP-24	Real time clock chip	8.95	7.95	6.95

★ Pull = Extra Savings

★ CPLDs and FPGAs — Enter Web Code SAZ

## Voice Chip

### Single-Chip Voice Record/Playback Device

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Playback can be edge or level-activated • 28-pin DIP
- Typical 100k record cycles, 1µA standby current and 100 year message retention



Part No.	Mfr. Part No.	Description	1	10	50
141671	ISD1110P	Voice record/playback (10 sec.)	\$5.95	\$5.49	\$5.25

## Microcontrollers

★ Web Code: PAV

Part No.	Mfr.	Mfr. Part No.	Pkg.	Description	1	10	100
145040	MCH	PIC12C508A-04/P	DIP-8	512 OTP, 4MHz, 5 I/O	\$ .99	\$ .89	\$ .85
144258	MCH	PIC12C509A-04/P	DIP-8	1k OTP, 4MHz, 5 I/O	1.95	1.75	1.49
223790	MCH	PIC12F629-I/P	DIP-8	1k flash, 20MHz, 6 I/O	.99	.89	.85
223781	MCH	PIC12F675-I/P	DIP-8	1k flash, 20MHz, 6 I/O	.99	.89	.85
312514	MCH	PIC12F683-I/P	DIP-8	2k flash, 20MHz, 6 I/O	1.19	1.15	1.09
145111	MCH	PIC16F84A-04/P	DIP-18	1k flash, 4MHz, 13 I/O	3.69	3.49	3.29
193332	MCH	PIC16F84A-20/P	DIP-18	1k flash, 20MHz, 13 I/O	3.95	3.75	3.49
312733	MCH	PIC16F88-I/P	DIP-18	4k flash, 20MHz, 16 I/O	2.75	2.55	2.49
247142	MCH	PIC16F648A-I/P	DIP-18	4k flash, 20MHz, 16 I/O	2.29	1.95	1.79
312590	MCH	PIC16F684-I/P	DIP-14	2k flash, 20MHz, 12 I/O	1.39	1.29	1.19
312611	MCH	PIC16F688-I/P	DIP-14	4k flash, 20MHz, 12 I/O	1.45	1.39	1.35
2127523	MCH	PIC16F690-I/P	DIP-20	7k flash, 20MHz, 18 I/O	1.95	1.79	1.59
246975	MCH	PIC16F873A-I/SP	DIP-28	4k flash, 20MHz, 22 I/O	4.35	4.19	3.95
193367	MCH	PIC16F876-20/SP	DIP-28	8k flash, 20MHz, 22 I/O	5.95	5.39	5.19
247011	MCH	PIC16F876A-I/SP	DIP-28	8k flash, 20MHz, 22 I/O	4.95	4.49	4.25
176882	MCH	PIC16F877-20/P	DIP-40	8k flash, 20MHz, 22 I/O	6.25	5.75	5.45
247038	MCH	PIC16F877A-I/P	DIP-40	8k flash, 20MHz, 33 I/O	4.95	4.75	4.49
2127531	MCH	PIC16F886-I/P	DIP-28	14k flash, 20MHz, 25 I/O	2.19	1.95	1.89
2127540	MCH	PIC16F887-I/P	DIP-40	14k flash, 20MHz, 35 I/O	2.29	2.15	2.09
248031	MCH	PIC18F452-I/P	DIP-40	32k flash, 40MHz, 34 I/O	6.25	5.95	5.69
2177651	MCH	PIC18F2550-I/SP	DIP-28	32k flash, 48MHz, 24 I/O	4.95	4.49	4.25
323133	ATM	ATMEGA16-16PU	DIP-40	6k flash, 16MHz, 32 I/O	4.49	4.25	3.95
2151267	ATM	ATTINY45-20PU	DIP-8	4k flash, 20MHz, 6 I/O	1.95	1.75	1.49
2151312	ATM	ATTINY85-20PU	DIP-8	8k flash, 20MHz, 6 I/O	1.95	1.75	1.49
204089	ATM	AT89C4051-24PU	DIP-20	4k flash, 24MHz, 15 I/O	2.75	2.49	2.25
168903	ATM	AT89C51-24PC	DIP-40	4k flash, 24MHz, 32 I/O	4.95	4.49	3.95
168920	ATM	AT89C52-24PC	DIP-40	8k flash, 24MHz, 32 I/O	4.95	4.49	3.95
662637	ATM	AT89S52-24PC	DIP-40	8k flash, 24MHz, 32 I/O	3.95	3.49	3.25
2139111	ATM	ATMEGA328P-PU	DIP-28	32k flash, 8-bit, 20MHz	2.95	2.59	2.29
2129334	ATM	A000048	DIP-28	32k flash, 8-bit, ATmega328	4.49	4.39	4.25

## Buffer

★ Web Code: WBR

Part No.	Product No.	Pkg.	Description	1	10	100
23051	LH0002CN	DIP-10	General purpose buffer	\$9.95	\$8.95	\$7.95

★ Digital Interface — Enter Web Code WBB

## PALs & GALs

★ Web Code: YAD

Part No.	Mfr.	Product No.	Pkg.	Description	1	10
88399	+	GAL16V8-10*	DIP-20	10ns 64 x 32 AND array	\$2.75	\$2.49
37452	+	GAL16V8-15*	DIP-20	15ns 64 x 32 AND array	2.25	1.95
37461	+	GAL16V8-25*	DIP-20	25ns 64 x 32 AND array	2.95	2.59
876539	LAT	GAL16V8D-25LP	DIP-20	25ns 64 x 32 AND array	2.95	2.59
38658	+	GAL20V8-15**	DIP-24	15ns 64 x 40 AND array	2.49	2.25
39159	+	GAL22V10-15	DIP-24	15ns 132 x 44 AND array	3.95	3.59
39167	+	GAL22V10-25	DIP-24	25ns 132 x 44 AND array	2.95	2.75

GALs are electrically erasable, CMOS PLDs that can be reprogrammed and can be used in place of numerous PALs

\* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8, 14H8, 14L8, 14P8, 16H6, 16L6, 16P6

\*\* Replaces PALs: 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

## Interface Series

★ Web Code: RBU

Part No.	Mfr.	Product No.	Pkg.	Description	1	10
1291647	MCH	TC4420CPA	DIP-8	6A high speed MOSFET driver	\$1.95	\$1.49
312160	MAX	MAX7219CNG	DIP-24	5V, 8 digit LCD driver	7.95	6.95
241875	+	FAN8082	DIP-8	18V, bi-directional DC motor driver	.79	.69
51131	+	SN75492P	DIP-14	5V, HEX digit driver	3.95	3.49

## PARALLAX Propeller Microprocessor Chip

Designed for high-speed embedded processing while maintaining low-power and low-current consumption.



Part No.	Mfr. Part No.	Package	1	10
2007134	P8X32A-D40	DIP-40	\$7.95	\$7.19

## USB-to-Serial Prop Plug for Propeller & BASIC Stamp

Provides a USB-to-serial port connection for microcontroller programming and communication. USB cable included.



Part No.	Mfr. Part No.	Description	1	5
2109421	32201	Up to 3Mbps, 3.3V & 5V compatible, 4-pin header	\$16.95	\$15.95

## PARALLAX BASIC Stamp Module

★ Web Code: BSM

Part No.	Mfr. Part No.	Package	Speed	No. of I/O Pins	1	5
130892	BS2-IC	24-pin	20MHz	16 + 2	\$44.95	\$40.95

## Stepper Motor Drivers/Controllers

★ Web Code: GDP

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
288067	ST	L297/1	DIP-20	Stepper motor controller, 5V	\$7.95	\$6.95	\$6.25
245403	ST	L298N	MW-15	Dual full-bridge driver, 46V	3.75	3.49	2.95
2179016	ALL	A3958SB	DIP-24	DMOS full-bridge PWM driver, 50V	.29	.25	.15
288104	ST	L6203	MW-11	DMOS full-bridge driver, 48V	7.95	6.95	5.95

## Motor/Display Drivers

★ Web Code: DAD

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
1762681	ALL	UDN2981A-T	DIP-18	8-channel source driver	\$3.95	\$3.59	\$3.29
24230	NSC	LM3914N	DIP-18	25V, dot/bar display driver	2.95	2.59	2.25
300003	NSC	LM3914N-1	DIP-18	25V, dot/bar display driver	2.75	2.49	1.95
901061	NSC	LM3915N-1	DIP-18	3dB/step, 30dB range dot/bar disp. drv	3.95	3.59	3.29

## KAE Servo Controllers

★ Web Code: YBC

### PIC-SERVO SC Servo Motion Control I.C.

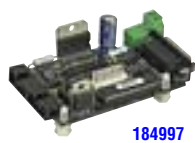
Part No.	Mfr. Part No.	Package	1	5	25
323934	KAE-TOV10-DP	DIP-28, 0.3"	\$29.95	\$28.49	\$26.95
2134432	KAE-TOV10-SO	SOIC-28, 0.3"	29.95	28.49	26.95

\* ALL = Allegro | ATM = Atmel Semi | LAT = Lattice Semi | MAX = Maxim Semi | MCH = Microchip | NSC = National Semi | ST = ST Micro | + Major Brands



# Motion Controllers, Drivers/Receivers, Comparators & Amplifiers

## KAE Industrial Motion Controllers



Part No.	Description	Size (L" x W" x H")	1	5
323942	PIC-SERVO motor control board	3.1 x 2.1 x 0.9	\$159.95	\$154.95
323951	PIC-SERVO 3-phase motor control board	3.1 x 3.1 x 0.9	239.95	227.95
184997	PIC-STEP motor control board	3.1 x 2.1 x 0.9	159.95	151.95

## KAE Smart Serial Adapter

### Serial Converter/Stand Alone Host Controller

- Up to 32 NMC PIC-SERVO, PIC-STEP, PIC-I/O modules can be controlled from a single smart serial adapter
- RS232 operation supports baud rates from 19,200 to 115,200
- Supports Windows®, LINUX, Mac® OS, and other operating systems



Part No.	Mfr. Part No.	Description	1	5
1586120	KAE-SSA485-BDV2	Smart serial adapter	\$99.95	\$94.95

## Encoders/Decoders

\*Web Code: VAR

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
296702	MOT	MC145026P	DIP-16	Encoder, 4.5-18V	\$3.95	\$3.59	\$3.29
296711	MOT	MC145027P	DIP-16	Decoder, 4.5-18V	2.95	2.75	2.49
123730	HOL	HT12E	DIP-18	Encoder, 2.4-12V	1.75	1.49	1.25
123748	HOL	HT12D	DIP-18	Decoder, 2.4-12V	1.95	1.75	1.49

## RS-232 Drivers/Receivers

\*Web Code: EAV

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
142535	MAX	MAX202CPE	DIP-16	5V, 120kbps, w/ 0.1µF ext. caps	\$2.95	\$2.59	\$2.29
24811	MAX	MAX232CPE*	DIP-16	5V, 200kbps, multichannel	2.95	2.59	2.29
318959	MAX	MAX232CPE	DIP-16	5V, 200kbps, multichannel	2.95	2.59	2.29
698576	MAX	MAX232N	DIP-16	Dual EIA-232 driver/receiver, C-temp	.99	.85	.69
106163	MAX	MAX233CPP	DIP-20	5V, 120kbps, multichannel	5.49	5.25	4.75
23157	DS	DS1488N*	DIP-14	15V, quad line driver	.55	.45	.25
23181	SN	SN75189N*	DIP-14	5V, quad line receiver	.55	.45	.25
25099	MAX	MC145406P	DIP-16	5-12V, EIA-232-D/V.28 driver/rcvr	2.95	2.59	2.29

\*10 pcs. included in Linear cabinet kit, pg 8

## RS-422/423/485 Drivers/Receivers

\*Web Code: NBT

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
299807	LTC	LTC485CN8	DIP-8	RS-485 LP transceiver, 5V	\$2.39	\$1.65	\$1.35
758364	SN	SN75176AP	DIP-8	RS-422 differential bus transceiver	1.39	1.09	.95
50964	SN	SN75176BN	DIP-8	RS-422 diff. line bus transceiver, 5V	.85	.69	.45

## A/D & D/A Converters

\*Web Code: QAG

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
277131	MAX	MAX110BCPE	DIP-16	A/D, 14-bit, 5V, 50sps, 2-ch	\$10.95	\$9.95	\$8.95
2207401	MCH	MCP4921E-P	DIP-8	A/D, 12-bit, 2.7-5V, 1.5µs, 1-ch	3.49	3.15	2.85
10153	NSC	ADC0804LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-ch	3.39	2.79	2.49
10225	NSC	ADC0820CCN	DIP-20	A/D, 8-bit, 5V, 1.5µs	2.95	2.59	2.29
116100	NSC	ADC0831CCN	DIP-8	A/D, 8-bit, 5V, 32µs	3.95	3.59	2.95
43756	7	7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, ±5V	3.95	3.59	2.95
115158	ADI	AD558JN	DIP-16	D/A, 8-bit, 5-15V, 1-5-3µs, 1-ch	13.95	12.49	10.95
14947	NSC	DAC0808LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns	1.69	1.49	1.19
14963	NSC	DAC0830LCN	DIP-20	D/A, 8-bit, 5-15V, 1µs	5.95	5.39	4.79

\*Gear Head Motors — Enter Web Code KBB

\*Interface Controllers — Enter Web Code HAS

\*Motion Control — Enter Web Code DEU

## Comparators

\*Web Code: EBS

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
23528	LM	LM311N*	DIP-8	Voltage comparator	\$ .69	\$ .55	\$ .39
23851	LM	LM339N**	DIP-14	Quad comparator	.39	.35	.17
826742	LM	LM339N	DIP-14	Quad differential comparator	.49	.39	.19
120900	LM	LM392N	DIP-8	Low power op amp/volt comp.	.99	.89	.69
24281	LM	LM393N*	DIP-8	Dual comparator	.35	.29	.15
973531	FSC	LM393N	DIP-8	Dual differential comparator ±18V	.39	.35	.19

\*10 pcs./\*\*20 pcs. included in Linear cabinet kit, pg 8

\*Power Management — Enter Web Code PMT

\*DC-to-DC Converters — Enter Web Code DCS

## Instrumentation Amplifiers

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
825934	INA	INA126PA	DIP-8	µPower instrumentation amp.	\$2.95	\$2.59	\$2.25
1780985	AD	AD623ANZ	DIP-8	Single supply, rail-to-rail	4.49	3.95	3.59

## Audio Amps

\*Web Code: MBP

Part No.	Mfr.	Product No.	Pkg./Pins	Description	1	10	100
24037	NSC	LM380N	DIP-14	2-watt, power amplifier	\$1.45	\$1.25	\$ .95
24088	NSC	LM383T	TO-220/5	7-watt, high power	5.95	5.49	4.95
24096	NSC	LM384N	DIP-14	5-watt audio amplifier	1.75	1.49	1.35
24125	NSC	LM386N-1*	DIP-8	Low voltage, 250mW/6V	.89	.79	.59
839826	NSC	LM386N-1/NOB	DIP-8	Low voltage audio power amp.	.95	.75	.59
24133	NSC	LM386N-3*	DIP-8	Low voltage, 500mW/9V	.89	.79	.59
24942	ON	MC1350P	DIP-8	Video IF amp. (12V operation)	3.95	3.49	2.95
23270	NSC	LM1875T	TO-220/5	20-watt audio power amp.	2.75	2.49	2.19
835753	NSC	LM1875T/LB03	TO-220/5	20W audio pwr amp. (staggered leads)	2.95	2.49	2.19
23288	NSC	LM1877N-9	DIP-14	Dual power audio amplifier	2.95	2.49	2.25
107140	NSC	LM1881N	DIP-8	Video synchronous separator	2.49	2.25	1.95
32897	ST	TDA2002V	TO-220/5	8-watt audio high power amp.	4.95	4.49	3.95
1416796	ST	TDA2030AV	PWAT-5	18-watt audio amplifier	2.95	2.59	2.29
315344	ST	TDA2040V	PWAT-5	20-watt hi-fi power	2.95	2.75	2.49
275830	OPA	OPA2134PA	DIP-8	High performance audio op amp.	3.59	3.29	2.95
192516	NSC	LM3886T	TO-220/11	68-watt high-performance	5.95	4.75	4.49
316865	MOT	MC34119P	DIP-8	LP audio amp. (500mW, 16VDC)	1.95	1.75	1.49

\*10 pcs. included in Linear cabinet kit, pg 8

## Op Amps

\*Web Code: WAD

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
27852	OP	OP07CP	DIP-8	Ultra-low offset voltage	\$ .79	\$ .69	\$ .55
115318	OP	OP27GP	DIP-8	Low noise precision (-40° to 80°C)	2.75	2.49	1.95
33187	TL	TL071CP	DIP-8	Low noise JFET op amp.	.55	.45	.29
33195	TL	TL072CP*	DIP-8	Low noise JFET dual op amp.	.69	.59	.39
33216	TL	TL074CN*	DIP-14	Low noise JFET quad op amp.	.59	.49	.29
33232	TL	TL081CP	DIP-8	JFET input, offset control	.49	.39	.25
33241	TL	TL082CP*	DIP-8	JFET input dual op amplifier	.69	.59	.39
33267	TL	TL084CN*	DIP-14	JFET input quad op amplifier	.55	.45	.29
143917	TL	TLC272CP	DIP-8	LinCMOS precision dual op amp.	1.25	1.09	.79
212151	LM	LM301AN*	DIP-8	Operational amplifier	.69	.59	.39
245673	LM	LM308AH	TO-5/8	Precision op amplifier	4.95	4.49	3.95
23464	LM	LM308N*	DIP-8	Precision op amplifier	6.95	6.25	5.49
23608	NSC	LM318N	DIP-8	Precision high speed	.89	.79	.59
23683	LM	LM324N**	DIP-14	Low power quad op amplifier	.39	.29	.17
826671	LM	LM324N	DIP-14	Quad op amplifier	.49	.39	.19
22904	LF	LF347N	DIP-14	Quad JFET input (wide band)	.69	.59	.39
23915	LM	LM348N	DIP-14	Quad 741 op amp (UPC4741C)	.55	.45	.25
22912	LF	LF351N	DIP-8	BIFET op amplifier	1.29	1.15	.99
22939	LF	LF353N*	DIP-8	Dual BIFET (comp w/ TL082CP)	.49	.39	.25
22971	NSC	LF356N*	DIP-8	JFET input (wide band)	.79	.69	.49
120862	LM	LM358AN	DIP-8	Low power dual (improved 358N)	.39	.29	.17

\*10 pcs./\*\*20 pcs. included in Linear cabinet kit, pg 8

\*ADI = Analog Devices | FSC = Fairchild | HOL = Holtek Semi | MAX = Maxim Semi | MCH = Microchip | MOT = Motorola | NSC = National | ON = ON Semi | ST = ST Micro | ♦ Major Brands

\*For additional products, availability and specifications visit [Jameco.com](http://www.Jameco.com) and enter the Web Code in the product search box

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# OP Amps, Digital Pots, Linear Series & Sensors

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Semiconductors

## Op Amps (Continued)

\*Web Code: WAD

Part No.	Mfr.	Product No.	Pkg./Pins	Description	1	10	100
23966	+	LM358N*	DIP-8	Low power dual op amplifier .....	\$ .39	\$ .29	\$ .19
826793	+	LM358P	DIP-8	Low power dual op amplifier .....	.39	.29	.19
23018	+	LF411CN*	DIP-8	Low offset drift JFET input .....	1.29	1.15	.95
23026	+	LF412CN*	DIP-8	Low offset drift JFET input dual .....	1.29	1.09	.89
106681	+	LF442CN	DIP-8	Dual low power JFET input .....	1.25	1.05	.79
119992	+	LF444CN	DIP-14	Quad low power JFET input .....	1.49	1.35	1.09
143976	+	LMC660CN	DIP-14	CMOS quad operational amplifier ...	1.95	1.75	1.49
24539	+	LM741CN**	DIP-8	Op amplifier .....	.45	.39	.25
24540	+	LM741CN-R	DIP-8	Op amplifier .....	.49	.39	.25
830522	+	UA741CP	DIP-8	General purpose op amplifier .....	.55	.45	.29
840763	NSC	LM741CN/NOPB	DIP-8	General purpose op amplifier .....	.59	.49	.35
24563	+	LM747CN	DIP-14	Dual 741 op amplifier .....	.99	.89	.69
23131	+	LM1458N*	DIP-8	Dual op amplifier .....	.59	.45	.29
903509	+	MC1458P	DIP-8	Dual general purpose op amplifier ...	.59	.45	.29
1085819	+	TLC2272CP	DIP-8	Advanced LinCMOS® rail-to-rail ...	2.09	1.89	1.49
1944839	+	TLV2772CP	DIP-8	Hi slew rate r-r output, w/ shutdown ...	.99	.89	.79
12116	+	CA3080E	DIP-8	Op transconductance amplifier .....	3.95	3.75	3.49
12183	+	CA3130E	DIP-8	CMOS op amplifier .....	1.95	1.75	1.49
12204	+	CA3140E	DIP-8	Bi-MOS op amplifier .....	1.59	1.45	1.29
24168	+	LM3900N	DIP-14	Quad amplifier.....	.49	.35	.19
251125	+	MC4558CN	DIP-8	Wide bandwidth dual bipolar .....	.59	.49	.35
27385	+	NE5532*	DIP-8	Dual low noise op amplifier .....	.69	.59	.39
903963	+	NE5532P	DIP-8	Dual low noise op amplifier .....	.99	.79	.59
27406	+	NE5534	DIP-8	Low noise op amplifier .....	.79	.69	.59
301356	NSC	LMC6484AIN	DIP-14	CMOS quad r-r I/O, lower VOS .....	2.95	2.59	2.25
192532	NSC	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer ..	1.79	1.55	1.25
871586	ON	MC33204P	DIP-14	Low voltage, rail-to-rail .....	1.59	1.39	1.19
251061	ON	MC34072P	DIP-8	Single supply 3V-44V op amplifier ...	.89	.79	.59

\*10 pcs./\*\*20 pcs. included in Linear cabinet kit, right

## Digital Potentiometers

\*Web Code: JBP

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
241744	MCH	MCP41010-I/P	DIP-8	10kΩ, 256 steps, SPI .....	\$1.39	\$1.29	\$ .95
241752	MCH	MCP42010-I/P	DIP-14	10kΩ, 256 steps, 2-ch SPI .....	2.09	1.89	1.49

\*Real Time Clocks — Enter Web Code RTC

\*Supervisory Chips — Enter Web Code SCT

\*Analog Switches — Enter Web Code YBN

## Linear Series

\*Web Code: FAD

Part No.	Mfr.	Product No.	Pkg./Pins	Description	1	10	100
16301	+	DS0026CN	DIP-8	Dual MOS clk. driver (5MHz) .....	\$3.95	\$3.49	\$2.95
1341966	+	L293DNE	DIP-16	Quad half-H drivers, I-temp .....	3.49	2.95	2.49
1342011	+	L293NE	DIP-16	Quad half-H drivers, C-temp .....	2.95	2.75	2.49
23721	+	LM331N	DIP-8	Prec volt to freq convtr (150ppm/°C) ..	2.29	1.95	1.59
23739	NSC	LM334Z	TO-92/3	Adjust current source .....	.79	.69	.39
23771	NSC	LM336Z-2.5	TO-92/3	Voltage reference (2.5V) .....	.49	.45	.35
24117	+	LM385Z-1.2	TO-92/3	Micropwr volt. ref. diode (1.2V) .....	.49	.39	.29
23000	+	LF398N	DIP-8	Sample and hold circuit .....	1.29	1.05	.79
33347	+	TL431CLP	TO-92/3	Program precision reference .....	.39	.29	.15
33355	+	TL494CN	DIP-16	Contrl circuit pulse-width-modulated ...	.59	.49	.35
86799	+	LM555CM	SOIC-8	Timer .....	.35	.25	.19
27422	+	LM555CN**	DIP-8	Timer (MC1455P/NE555V) .....	.29	.22	.17
27423	+	LM555CN-R	DIP-8	Timer (MC1455P/NE555V) .....	.35	.25	.19
973646	FSC	LM555CN	DIP-8	Timer .....	.29	.25	.19
126797	+	LMC555CN*	DIP-8	CMOS timer .....	.69	.59	.45
841571	NSC	LMC555CN/NOPB	DIP-8	CMOS timer .....	1.19	.95	.75
980091	ST	NE555N	DIP-8	Gen. purp. single bipolar timer .....	.49	.45	.39
904085	+	NE555P	DIP-8	Precision timer .....	.39	.35	.25
761272	+	TLC555CP	DIP-8	LinCMOS™ timer, C-temp .....	.89	.79	.69

\*10 pcs./\*\*20 pcs. included in Linear cabinet kit, above right

## Linear Series (Continued)

\*Web Code: FAD

Part No.	Mfr.	Product No.	Pkg./Pins	Description	1	10	100
24328	+	LM556N*	DIP-14	Dual 555 timer .....	\$ .45	\$ .35	\$ .25
904114	+	NE556N	DIP-14	Dual precision timer .....	.49	.39	.25
24395	+	LM567CN	DIP-8	Tone decoder .....	1.49	1.19	.95
115174	ADI	AD620AN	DIP-8	Low-cost instrument amp. ....	7.95	7.25	6.49
1780985	ADI	AD623ANZ	DIP-8	Sngl supply r-to-r instrument amp. ....	4.49	3.95	3.59
115182	ADI	AD633JN	DIP-8	Low-cost analog multiplier .....	9.95	8.95	7.95
23211	+	MC1496P	DIP-14	Balanced mod/demodulator .....	1.95	1.75	1.49
1944821	+	P1803AC	TO-220	Balanced three-chip sidactor .....	.25	.15	.12
34278	+	ULN2003A*	DIP-16	Hi-volt/curr. darl. transistor array ....	.39	.35	.25
1147178	+	ULN2003AN	DIP-16	Hi-volt/curr. darl. transistor array ....	.65	.49	.39
2179024	+	ULQ2003A	DIP-16	Hi-volt/curr. darl. transistor array ....	.49	.39	.29
34294	+	ULN2004AN	DIP-16	Hi-volt/curr. darl. transistor array ....	.45	.35	.25
34972	EXR	XR2206CP	DIP-16	Monolithic function generator .....	7.95	7.25	6.75
34999	+	XR2211	DIP-14	FSK demodulator/tone decoder .....	1.75	1.49	1.25
34315	+	ULN2803A*	DIP-18	Hi-volt/curr. darl. transistor array ....	.69	.59	.49
700664	+	ULN2803AN	DIP-18	Darlington transistor array, I-temp ..	1.95	1.75	1.49
12079	+	CA3046N	DIP-14	NPN transistor array .....	2.95	2.75	2.49
12159	+	CA3086N	DIP-14	NPN transistor array .....	2.95	2.59	2.29
901108	NSC	LM3916N-1	DIP-18	VU meter display driver .....	1.95	1.75	1.49
51140	+	75551PA	DIP-8	CMOS timer .....	.69	.59	.39
53786	FSC	9602IPC	DIP-16	Dual retrigger. resettable monostable multivib. ....	.35	.25	.19
1054684	+	SN75441ONE	DIP-16	Quad half-H drivers .....	2.25	1.95	1.59

\*10 pcs. included in Linear cabinet kit, below

\*MUX/DEMUXs — Enter Web Code RAB

## Linear IC Kit

\*Web Code: CKS

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 129 and 30 adhesive labels for drawers to identify parts in kit.

10 each: TL072CP, TL074CN, TL082CP, TL084CN, MAX232CPE, LM301N, LM308N, LM311N, LM337T, LF353N, LF356N, LM358N, LM386N-1, LM386N-3, LM393N, LF411CN, LF412CN, LMC555CN, LM556N, LM723CN, LM1458N, DS1488N, DS1489N, ULN2003A, ULN2803A, NE5532N, 7808T, 78L12, 7815T, 7905T, 7912CT, 7915CT

Part No.	Description	Wt. (lbs.)	1	5
84988	480 pcs. (40 types) analog IC kit	6.0	\$199.95	\$179.95
130411	Refill for 84988 (480 pcs.)	1.3	184.95	169.95

\*Voltage References — Enter Web Code TBD

## Temperature Sensors

\*Web Code: WAN

Part No.	Mfr.	Product No.	Pkg./Pins	Description	1	10	100
107094	NSC	LM34CZ	TO-92/3	Prec temp sensor (-40° to +230°F) ..	\$4.95	\$4.49	\$3.95
155192	NSC	LM34DZ	TO-92/3	Prec temp sensor (+32° to +212°F) ..	2.49	2.25	1.79
192217	NSC	LM35DT	TO-220/3	Prec temp sensor (-55° to 150°C) ..	2.19	1.79	1.49
155740	NSC	LM35DZ	TO-92/3	Prec temp sensor (0° to +100°C) ...	1.49	1.19	.95
278387	ADI	TMP36GT9	TO-92	Low voltage temp. sensor.....	1.49	1.25	1.05
120820	+	LM335AZ	TO-92/3	Precision temperature sensor .....	1.19	.99	.79
23755	+	LM335Z	TO-92/3	Volt mode temperature sensor .....	.79	.69	.45
241939	ADI	AD590JH	TO-52/3	Two terminal IC temp transducer ..	9.95	8.95	7.95
313293	ADI	AD595AQ	DIP-14	Thermocouple amp for chromel-alumel ..	16.95	15.95	14.95
302551	DAL	DS18S20	TO-92/3	High-prec. 1-wire digital thermo ...	2.75	2.49	2.25



## Hall Effect Sensors

\*Web Code: REB

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
1718743		A1302EUA-T	SIP-3	4.5V to 6V, 11mA, 1.3mV/G sensitivity ....	\$2.75	\$2.49	\$2.25
2135881		A1302KUA-T	SIP-3	4.5V to 6V, 11mA, 1.3mV/G sensitivity .....	1.49	1.25	.95
1718701		A1104LUA-T	SIP-3	3.8V to 24V, 7.5mA, Brp=25G. Bop=450G ..	1.59	1.39	1.05
1871879		OH180U	SIP-3	Mono IC w/ hall linear amp & sensor ..	2.49	2.25	2.09

More Hall Effect Sensors on page 73

\*ADI = Analog Devices | DAL = Dallas Semi | EXR = EXAR Corp. | FSC = Fairchild Semi | MCH = Microchip | NSC = National Semi | ON = ON Semi | ST = ST Micro | + Major Brands



# Voltage Regulators & IC Sockets

## Voltage Regulators

\*Web Code: TAC

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
192276	NSC	LM317HVT	TO-220/3	3-terminal adj. (1.2V-57V) ....	\$2.09	\$1.75	1.45
23544	♦	LM317K	TO-3/2	1.5A adj. positive (1.2V-37V) ..	6.95	6.25	5.59
23552	♦	LM317LZ	TO-92/2	100mA adj. positive (1.2V-37V) ..	.35	.29	.19
23579	♦	LM317T**	TO-220/3	1.5A adj. positive (1.2V-37V) ....	.39	.29	.22
898800	♦	LM317T/NOPB	TO-220	1.5A adj. positive (1.2V-37V) ..	1.59	1.35	1.05
23667	♦	LM323K	TO-3/2	5V, 3A positive .....	6.95	6.25	5.59
23819	♦	LM337T*	TO-220/3	1.5A/adj. neg. (-1.2V-37V) .....	.49	.45	.35
23835	♦	LM338K	TO-3/2	5A adj. positive (1.2V-32V) .....	9.95	8.95	7.95
192284	NSC	LM338T	TO-220/3	5A adjustable .....	1.79	1.49	1.25
838621	NSC	LM338T/NOPB	TO-220/3	5A adjustable positive .....	1.85	1.55	1.29
900017	NSC	LM340T-5.0	TO-220/3	5V, 1A positive, I-temp .....	1.59	1.39	1.05
23931	♦	LM350K	TO-3/2	3A/3 term. adj. pos. (1.2V-33V) ..	9.95	8.95	7.95
23940	♦	LM350T	TO-220/3	3A adjustable power .....	.79	.69	.45
24467	♦	LM723CN*	DIP-14	Voltage regulator (2V-37V) .....	.45	.39	.29
51246	♦	7805K	TO-3/2	5V, 1A positive (LM340K-5) ....	2.49	2.25	1.95
51262	♦	7805T**	TO-220/3	5V, 1A positive (LM340T-5) .....	.29	.25	.22
51263	♦	7805T-R	TO-220/3	5V, 1A positive (LM340T-5) .....	.35	.29	.25
924570	ST	L7805ACV	TO-220/3	5V, 1.5A positive .....	.49	.39	.25
924633	ST	L7805CV	TO-220/3	5V, 1.5A positive .....	.45	.35	.29
1991651	ST	L7805ABV	TO-220/3	5V, 1A positive .....	.49	.39	.29
876125	NXP	MC7805BTG	TO-220/3	5V, 1A positive, I-temp .....	.49	.45	.35
786138	FSC	LM7805CT	TO-220/3	5V, 1A positive, I-temp .....	.45	.39	.35
876221	ON	MC7805CT	TO-220/3	5V, 1A positive, C-temp .....	.35	.29	.22
51182	♦	78L05**	TO-92/3	5V, 100mA positive .....	.25	.22	.17
876715	FSC	MC78L05ACP	TO-92/3	5V, 100mA positive, C-temp .....	.29	.25	.19
973831	FSC	LM78L05ACP	TO-92/3	5V, 100mA positive, I-temp .....	.25	.19	.15
192233	♦	78M05	TO-220/3	5V, 500mA positive .....	.35	.29	.22
889461	ST	L78S05CV	TO-220/3	5V, 2A positive .....	.59	.49	.45
51297	♦	7806T	TO-220/3	6V, 1A positive (LM340T-6) .....	.35	.29	.25
51300	♦	7808T*	TO-220/3	8V, 1A positive (LM340T-8) .....	.35	.29	.19
65162	♦	78L08A	TO-92/3	8V, 100mA positive .....	.25	.10	.07
876352	ON	MC7809CT	TO-220/3	9V, 2.2A positive, C-temp .....	.39	.35	.22
1958641	FSC	LM7809CT	TO-220/3	9V, 2.2A positive .....	.49	.39	.29
192225	♦	78L09ACZ	TO-92/3	9V, 100mA positive .....	.35	.25	.15
51318	♦	7812K	TO-3/2	12V, 1A pos. (LM340K-12) .....	2.95	2.75	2.49
2234417	♦	7812S	TO-220/3	12V, 1A positive .....	.29	.25	.22
51334	♦	7812T**	TO-220/3	12V, 1A pos. (LM340T-12) .....	.29	.25	.22
889305	ST	L7812CV	TO-220/3	12V, 1.5A positive .....	.39	.29	.22
902127	NSC	LM7812CT	TO-220/3	12V, 1A positive .....	1.49	1.19	.95
51203	♦	78L12*	TO-92/3	12V, 100mA positive .....	.35	.29	.22
51377	♦	7815T*	TO-220/3	15V, 1A positive (LM340T-15) .....	.35	.29	.25
51414	♦	7824T	TO-220/3	24V, 1A positive (LM340T-24) .....	.35	.29	.25
51457	♦	7905T*	TO-220/3	-5V, 1A neg. (LM320T-5) .....	.35	.29	.25
51422	♦	79L05	TO-92/3	-5V, 100mA negative .....	.29	.22	.15
2132269	♦	7906A	TO-220/3	-6V, 500mA negative .....	.25	.15	.10
51481	♦	7912T*	TO-220/3	-12V, 1A neg. (LM320T-12) .....	.35	.29	.25
51502	♦	7915T*	TO-220/3	-15V, 1A neg. (LM320T-15) .....	.39	.35	.25
2205237	♦	GL-7924	TO-220/3	-24V, 2.2A .....	.25	.15	.10
316945	MOT	MC34063AP1	DIP-8	1.5 step-up/down invert sw reg ...	.59	.49	.35

\*10 pcs./\*\*20 pcs. included in Linear cabinet kit, pg 8

## Simple Switcher Voltage Regulators

\*Web Code: VAX

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10
192372	NSC	LM2576HVT-ADJ	TO-220/5	3A step-down V-reg, high Vin range	\$4.49	\$3.95
120977	♦	LM2576T-ADJ	TO-220/5	3A step-down voltage regulator .....	2.25	1.79

\*Switching Regulators — Enter Web Code DEN

## Low Drop-Out Voltage Regulators

\*Web Code: MBT

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
299743	NSC	LM1084IT-ADJ	TO-220/3	5A low dropout adj. pos. ....	\$2.39	\$2.25	\$1.85
192305	♦	LM1086CT-3.3	TO-220/3	1.5A low dropout pos. (3.3V) ....	1.49	1.25	1.09
1390194	ST	LD1086V90	TO-220	1.5A, 9V LDO .....	.29	.19	.15
242114	♦	LM1117T-3.3	TO-220/3	800mA, 3.3V, LDO .....	.89	.79	.69
897188	NSC	LM2937ET-3.3	TO-220/3	500mA, 3.3V LDO, I-temp .....	1.49	1.25	.99
107182	♦	LM2940CT-5	TO-220/3	5V LDO reg. (max. 45Vin) .....	1.39	1.25	.95
121064	♦	LM2941CT	TO-220/5	1A LDO adjustable (45Vin) .....	.79	.69	.59
1323397	NSC	LP2950ACZ-3.3/NOPB	TO-92	3.3V ppwr volt. reg., I-temp .....	.75	.65	.49
2135671	♦	AS2954-5.0	TO-92/3	5.0V, 250mA LDO .....	.25	.19	.12
1389337	ST	L4940V5	TO-220/3	1.5V low drop out 5V .....	1.25	1.05	.95

\*Power Drivers and Modules — Enter Web Code REK

## PLCC Thru-Hole Sockets

- Solder tail allows thru-hole board patterns in .100" grid
- Thru-hole lead length: .125"
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)

JAMECO ValuePro

71969



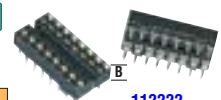
Part No.	*Mfr.	Product No.	Pins	Body Height (in.)	1	10	100
71618	♦	G1P444	44	.375	\$.89	\$.79	\$.69
72442	JVP	G1P452	52	.375	.99	.89	.79
71969	JVP	G1P468	68	.375	.99	.89	.79

## Single/Dual Wipe Solder Tail Low-Profile IC Sockets

- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300V
- Insulation resistance: greater than 1000MΩ
- Thru-hole lead length: .140" (A)
- Body height: .188" (B)

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\*Web Code: WAP



112222

Order in multiples of 10

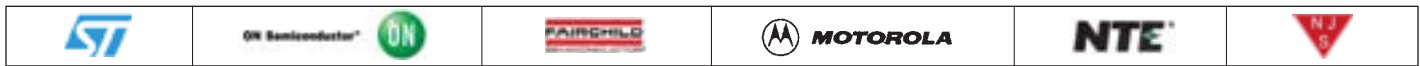
Part No.	*Mfr.	Product No.	Pins	Width (in.)	10	100	1000
112193	JVP	6LPD	6	0.3	\$.15	\$.12	\$.11
51571	♦	8LPD	8	0.3	.13	.10	.08
112206	JVP	8LPD	8	0.3	.14	.11	.09
37162	JVP	14LP (single wipe)	14	0.3	.13	.10	.09
112214	JVP	14LPD	14	0.3	.14	.11	.10
37372	JVP	16LP (single wipe)	16	0.3	.12	.10	.08
37373	♦	16LPD	16	0.3	.18	.12	.10
112222	♦	16LPD	16	0.3	.20	.13	.11
38113	JVP	18LP (single wipe)	18	0.3	.14	.12	.09
112231	JVP	18LPD	18	0.3	.17	.16	.12
38607	JVP	20LP (single wipe)	20	0.3	.15	.12	.10
112248	♦	20LPD	20	0.3	.17	.16	.14
38608	JVP	20LPD	20	0.3	.18	.17	.15
112256	JVP	22SLPD	22	0.3	.19	.14	.12
39132	JVP	22LPD	22	0.4	.17	.16	.14
39378	♦	24SLPD	24	0.3	.24	.22	.19
112264	♦	24LPD	24	0.6	.24	.22	.18
112266	JVP	24LPD	24	0.6	.26	.24	.20
112299	♦	28SLPD	28	0.3	.25	.23	.21
112300	JVP	28SLPD	28	0.3	.26	.24	.22
112272	♦	28LPD	28	0.6	.24	.22	.19
40301	JVP	28LPD	28	0.6	.26	.24	.21
137621	JVP	32SLPD	32	0.3	.19	.14	.10
689979	♦	ED32DT	32	0.6	.19	.14	.10
112301	JVP	32LPD	32	0.6	.25	.22	.19
41111	♦	40LPD	40	0.6	.33	.30	.26
112311	JVP	40LPD	40	0.6	.40	.36	.30

\* FSC = Fairchild | JVP = Jameco ValuePro | MOT = Motorola | NSC = National Semi | NXP = NXP Semi | ON = ON Semi | ST = ST Micro | ♦ Major Brands

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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## TE DIP Low-Profile IC Sockets

\*Web Code: QAF

### Economy Ladder Style

NEW  
MARKED IN PINK

- Dual wipe
- Housing: glass filled thermoplastic, black
- Contacts: phosphor bronze tin plating



Part No.	Mfr. Part No.	Pos.	Plating	Width (in.)	1	10	100
2246055	1-2199298-1	6	60µ" tin	0.3	\$.19	\$.16	\$.13
2246063	1-2199298-2	8	60µ" tin	0.3	.22	.20	.19
2246071	1-2199298-3	14	60µ" tin	0.3	.31	.28	.25
2246080	1-2199298-4	16	60µ" tin	0.3	.32	.29	.26
526213	390261-5	18	60µ" tin	0.3	.25	.19	.17
2246098	1-2199298-5	18	60µ" tin	0.3	.31	.28	.25
2246101	1-2199298-6	20	60µ" tin	0.3	.29	.26	.23
683198	1-390262-1	24	60µ" tin	0.6	.29	.25	.22
2246119	1-2199298-8	24	60µ" tin	0.3	.49	.45	.39
2246135	1-2199299-2	28	60µ" tin	0.3	.49	.45	.39
2246127	1-2199298-9	28	60µ" tin	0.3	.55	.49	.45
2246143	1-2199299-5	40	60µ" tin	0.3	.69	.59	.55

## Machine Tooled Solder Tail Low-Profile IC Sockets

- Contact plating: gold
- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300VRMS
- Insulation resistance: greater than 1000MΩ
- Material: beryllium copper or phosphor bronze
- Tin-plated leads
- Thru-hole lead length: .177" (A) • Body height: .117" (B)

JAMECO ValuePro



\*Web Code: GBA

Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100
167004	6MLP	6	0.3	\$.39	\$.29	\$.19
51626	8MLP	8	0.3	.45	.35	.29
2230352	14MLP*	14	0.3	.49	.45	.35
37197	14MLP	14	0.3	.65	.55	.39
37402	16MLP	16	0.3	.75	.59	.45
65585	18MLP	18	0.3	.89	.75	.55
38623	20MLP	20	0.3	.89	.75	.55
39386	24SMLP	24	0.3	.89	.79	.59
39351	24MLP	24	0.6	1.09	.89	.65
114412	28SMLP	28	0.3	1.09	.89	.65
40328	28MLP	28	0.6	1.19	.95	.69
40329	28MLP-R	28	0.6	1.25	.99	.75
105381	32MLP	32	0.6	1.35	1.09	.89
41136	40MLP	40	0.6	1.69	1.39	.95

\*.240" pin length

## .100" Single-In-Line Machine Tooled Strip Sockets

- Solder tail or wire wrap

JAMECO ValuePro

\*Web Code: KAM

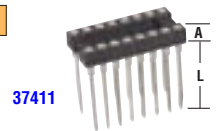


Part No.	Description	Pins	Lead Length (in.)	1	10	100
164822	Straight single row	4	.160	\$.59	\$.49	\$.39
138684	Straight single row	5	.160	.39	.29	.19
2100339	Straight single row	7	.160	.39	.29	.19
102201	Straight single row	10	.160	.99	.89	.69
2125675	Straight single row	14	.160	.49	.39	.29
78642	Straight single row	30	.160	1.49	1.29	.95
175920	Straight single row	36	.160	1.75	1.59	1.29
101283	WW2 single row	20	.500 (2)	2.49	2.25	1.95
104054	WW3 single row	30	.575 (3)	3.49	2.95	2.59

## JAMECO ValuePro 3 Level Machine Tooled Wire Wrap IC Sockets

\*Web Code: FAL

- Contact plating: gold
- Sleeve material: brass
- Contact resist.: less than 5m • Tin-plated leads
- Material: beryllium copper or phosphor bronze
- Dielectric withstanding voltage: 300VRMS
- Insulation resistance: greater than 1000MΩ
- Body height: .115" (A) • Thru-hole lead length: .586" (L)
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide



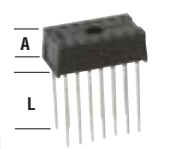
Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100
94474	8MSWW3	8	0.3	\$1.49	\$1.35	\$1.19
62051	14MSWW3	14	0.3	1.75	1.55	1.39
37411	16MSWW3	16	0.3	2.25	1.95	1.75
94482	18MSWW3	18	0.3	2.49	2.25	1.95
38632	20MSWW3	20	0.3	2.49	2.25	1.95
94491	24MSWW3	24	0.6	2.95	2.75	2.49
200716	283MSWW3	28	0.3	3.25	2.95	2.75
94503	40MSWW3	40	0.6	4.95	4.49	3.95

## 2 & 3 Level Wire Wrap IC Sockets

\*Web Code: SAF

- Contact plating/leads: tin (TWW); dual wipe
- Contact current: 1A • Contact resistance: <5mΩ
- Sleeve material: brass
- Dielectric withstanding volt.: 300V
- Material: beryllium copper or phosphor bronze
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Thru-hole lead length: .438" (L2); .638" (L3) • Body height: .300" (A)

CA



Part No.	Manufacturer	Product No.	Pins	Width (in.)	1	10	100
196841	ValuePro	14TWW3	14	0.3	\$1.25	\$.99	\$.85
37437	Circuit Assembly	16TWW2	16	0.3	2.95	2.75	2.49

## JAMECO ValuePro Wire Wrap IC Socket I.D. Marker

- Material: plastic
- Can easily write location, part number or function
- Quick identification of pin numbers
- Slips onto socket before wrapping



Part No.	Product No.	Pins	Width (in.)	1	10	100
37145	ID-14-100	14	0.3	\$.69	\$.59	\$.45

## JAMECO ValuePro SIMM Vertical Socket

\*Web Code: WAL

- Locking tabs
- Memory module sockets
- Tinned contacts
- Keyed mounting posts



Part No.	Cross Ref. No.	Description	1	10	100
100302	2000-1X30S	Single x 30-pin, vertical	\$1.49	\$1.35	\$1.19

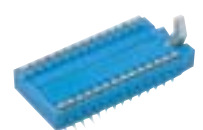


## Low Profile ZIF Sockets

\*Web Code: UBX

### Series 526

- Body: UL 94V-0 glass-filled polyester thermoplastic
- Beryllium copper alloy spring tempered contacts with 200µ" (5.08µm) tin plating
- Contact resistance: 10mΩ max. • Contact current: 2A
- Breakdown voltage: 1000VAC min.
- Center pins: .600" (15.24mm) • Zinc alloy cam
- Operating temperature: -67°F to 221°F (-55°C to 105°C)
- Suggested PCB hole size: .035"Dia. (0.89mm)



Part No.	Mfr. Part No.	Pins	Size (L" x W")	1	5	25
102745	28-526-10	28	1.64 x .75	\$9.95	\$8.95	\$7.95
102753	40-526-10	40	2.24 x .75	10.49	9.49	8.49





## High Temp. Universal ZIF Test Sockets

### Series 6554

- Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- -10: 100µ" tin over 50µ" nickel; -11: 10µ" gold over 50µ" nickel
- Operating temperature:
  - 10: 221°F (105°C) – tin plating
  - 11: 302°F (150°C) – gold plating
- Socket body: UL 94V-0 glass-filled PPS • Beryllium copper contact plating
- Stainless steel handle • Center pins: 0.600" • Insulation resistance: 1000MΩ
- Contact current: 1A • Dielectric withstanding voltage: 1000VAC

\*Web Code: AAN



104012

Part No.	*Mfr.	Product No.	Pins	Size (L" x W")	1	5	25
2244341	ADF	382	28	2.0 x 0.6	\$3.95	\$3.55	\$3.19
104003	ARI	28-6554-10	28	2.0 x 0.9	9.95	9.25	8.75
104012	ARI	32-6554-10	32	2.1 x 0.9	10.95	9.95	8.95
104030	ARI	40-6554-10	40	2.5 x 0.9	12.95	12.25	11.75

## Transistors

\*Web Code: FEN

\* Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ I <sub>c</sub> )	1	10	100
26462	♦	MPSA06	TO-92	NPN	80	100k @ .01A	...	\$1.15	\$1.11
26489	♦	MPSA13*	TO-92	NPN	30	5k @ .01A	...	.12	.10
210593	♦	MPSA14	TO-92	NPN	30	20k @ .10A	...	.29	.25
210681	♦	MPSA18*	TO-92	NPN	45	500 @ .001A	...	.29	.19
33048	♦	TIP31A*	TO-220	NPN	60	10 @ 3A	...	.39	.35
179354	FSC	TIP31C	TO-220	NPN	100	10 @ 3A	...	.39	.35
890568	ST	TIP35C	TO-247	NPN	100	25 @ 1.5A	...	1.59	1.35
179371	♦	TIP41C	TO-220	NPN	100	15 @ 3A	...	.49	.39
178546	♦	MPSA42	TO-92	NPN	30	40 @ .03A	...	.19	.09
32977	♦	TIP102*	TO-220	NPN	100	1k @ 3A	...	.49	.39
32993	♦	TIP120*	TO-220	NPN	60	1k @ 3A	...	.39	.29
179291	FSC	TIP120	TO-220	NPN	60	1k @ 3A	...	.49	.39
120416	♦	TIP122	TO-220	NPN	100	1k @ 3A	...	.55	.39
260558	NTE	NTE123AP	TO-92	NPN	40	40 @ .001A	...	1.49	1.25
890445	ST	TIP142	TO-218	NPN	100	1k @ 0.5A	...	1.49	1.29
2132293	♦	BD158	TO-126	NPN	300	30 @ .05A	...	.25	.12
254810	♦	BC337	TO-92	NPN	45	100 @ .10A	...	.15	.12
254801	♦	BC547B	TO-92	NPN	45	330 @ .002A	...	.12	.09
254799	♦	BC547C	TO-92	NPN	45	600 @ .002A	...	.14	.08
254781	♦	BC548B	TO-92	NPN	30	110 @ .002A	...	.12	.06
2245706	NJS	2N1893	TO-5	NPN	80	40 @ .15A	...	1.95	1.75
2245765	NJS	2N2218	TO-39	NPN	40	40 @ .15A	...	2.49	2.25
2245781	NJS	2N2218A	TO-39	NPN	40	40 @ .15A	...	2.49	2.25
38228	♦	2N2219A	TO-39	NPN	40	100 @ .15A	...	.79	.59
2245773	NJS	2N2221	TO-18	NPN	30	35 @ 0.01A	...	2.49	2.25
26446	♦	MPQ2222	DIP-14	NPN	40	100 @ .15A	...	2.95	2.49
28628	♦	PN2222**	TO-92	NPN	30	100 @ .15A	...	.25	.14
38236	♦	2N2222A*	TO-18	NPN	40	100 @ .15A	...	.89	.79
210673	♦	MPS2222A	TO-92	NPN	40	40 @ .50A	...	.19	.15
178511	♦	PN2222A	TO-92	NPN	40	100 @ .15A	...	.11	.05
787536	FSC	PN2222ABU	TO-92	NPN	40	300 @ .15A	...	.12	.06
2245685	NJS	2N2369	TO-18	NPN	15	40 @ .01A	...	.99	.79
2245749	NJS	2N3019	TO-39	NPN	80	50 @ .5A	...	1.95	1.75
38295	♦	2N3053*	TO-39	NPN	40	25 @ .15A	...	.89	.79
38308	♦	2N3055*	TO-3	NPN	60	15 @ 10A	...	1.19	1.09
211406	♦	2N3055A	TO-3	NPN	60	20 @ 4A	...	2.49	2.25
211385	♦	TIP3055	TO-247	NPN	60	5 @ .001A	...	1.29	1.09
25857	♦	MJE3055T	TO-220	NPN	60	20 @ 4A	...	.59	.35
2245714	NJS	2N3700	TO-18	NPN	80	50 @ .5A	...	1.95	1.75
209242	♦	2N3771	TO-3	NPN	40	15 @ 15A	...	2.25	1.95
2245853	NJS	2N3866	TO-39	NPN	30	15 @ .05A	...	5.95	5.49
38359	♦	2N3904**	TO-92	NPN	40	100 @ .01A	...	.09	.06
178597	FSC	2N3904	TO-92	NPN	40	100 @ .01A	...	.14	.08

\*10 pcs./\*\*100 pcs. in Transistor cabinet kit, right

## Transistors (Continued)

\*Web Code: FEN

\* Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ I <sub>c</sub> )	1	10	100
783421	FSC	2N3904BU	TO-92	NPN	40	100 @ .01A	...	\$1.14	\$0.88
38421	♦	2N4401*	TO-92	NPN	40	100 @ .15A	...	.11	.05
783498	FSC	2N4401TA	TO-92	NPN	40	20 @ .1mA	...	.12	.06
62316	♦	2N5088	TO-92	NPN	30	300 @ .05A	...	.25	.14
1201429	FSC	2N5088BU	TO-92	NPN	30	300 @ .05A	...	.15	.08
140373	♦	2N5179	TO-72	NPN	12	25 @ .003A	...	2.95	2.59
1945081	FSC	2N5306	TO-92	NPN	25	7000 @ .002A	...	.25	.19
2158979	♦	2N6284	TO-3/2	NPN	100	750 @ 10A	...	1.95	1.75
924300	ON	2N6284	TO-3/2	NPN	100	750 @ 10A	...	4.25	3.59
194618	♦	2N6547	TO-3	NPN	400	12 @ 5A	...	3.95	3.49
33064	♦	TIP32A*	TO-220	PNP	60	10 @ 3A	...	.39	.35
181841	♦	TIP32C	TO-220	PNP	100	10 @ 3A	...	.39	.35
890592	ST	TIP36C	TO-218	PNP	100	25 @ 1.5A	...	1.59	1.35
139580	♦	TIP42C	TO-220	PNP	100	15 @ 3A	...	.49	.39
179258	♦	TIP107	TO-220	PNP	100	1k @ 3A	...	.49	.39
33013	♦	TIP125	TO-220	PNP	60	1k @ 3A	...	.49	.39
179320	♦	TIP127	TO-220	PNP	100	1k @ 3A	...	.45	.35
890488	ST	TIP147	TO-218	PNP	100	1k @ 5A	...	1.49	1.29
1215986	♦	BC327	TO-92	PNP	45	100 @ .10A	...	.12	.08
2159710	MOT	BC411	TO-92	PNP	45	350 @ .10A	...	.25	.09
2169521	ON	BC557CG	TO-92	PNP	-45	800 @ -2A	...	.49	.45
2245677	NJS	2N2904A	TO-39	PNP	60	120 @ .15A	...	.99	.89
194378	♦	2N2905A	TO-39/3	PNP	60	100 @ .15A	...	.89	.79
28644	♦	PN2907*	TO-92	PNP	40	100 @ .15A	...	.10	.07
211342	♦	MPS2907A	TO-92	PNP	60	100 @ .15A	...	.29	.25
178520	♦	PN2907A	TO-92	PNP	60	100 @ .15A	...	.09	.07
38279	♦	2N2907A*	TO-18	PNP	60	100 @ .15A	...	.69	.59
211502	♦	MJ2955	TO-3	PNP	60	20 @ 4A	...	1.49	1.29
2245731	NJS	2N3250	TO-18	PNP	40	50 @ .01A	...	1.95	1.75
2245722	NJS	2N3251	TO-18	PNP	40	80 @ .001A	...	1.95	1.75
2245790	NJS	2N3496	TO-18	PNP	80	40 @ .01A	...	2.49	2.25
2245837	NJS	2N3638	TO-5	PNP	25	20 @ .3A	...	2.95	2.75
38375	♦	2N3906**	TO-92	PNP	40	100 @ .01A	...	.12	.06
783455	FSC	2N3906BU	TO-92	PNP	40	100 @ .01A	...	.12	.09
178618	FSC	2N3906	TO-92	PNP	40	100 @ .01A	...	.14	.07
2245757	NJS	2N4036	TO-39	PNP	65	40 @ .15A	...	1.95	1.75
2245693	NJS	2N4037	TO-39	PNP	40	50 @ .15A	...	.99	.89
214623	♦	2N4126	TO-92	PNP	25	360 @ .20A	...	.25	.12
253411	♦	2N4400	TO-92	NPN	40	50 @ .15A	...	.25	.12
787608	♦	PN3565	TO-92	NPN	25	150 @ .001A	...	.25	.15
1944951	♦	PN4355	TO-92	PNP	60	5 @ .05A	...	.25	.12
38447	♦	2N4403*	TO-92	PNP	40	100 @ .15A	...	.12	.06
210649	♦	2N5401*	TO-92	PNP	150	60 @ .01A	...	.29	.25
261121	NTE	NTE6410	TO-92	PNP	30	—	...	3.95	3.49
2228720	ST	ULN2001A	DIP-16	NPN	50	1k @ .35A	...	.25	.15
277413	♦	PN3567	TO-92	NPN	40	40 @ .15A	...	.25	.12
787616	♦	PN3568	TO-92	NPN	60	40 @ .03A	...	.25	.12

\*10 pcs./\*\*100 pcs. in Transistor cabinet kit, below

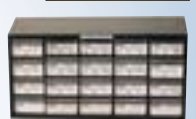
## Transistor Assortment Cabinet Kit

\*Web Code: CKS

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611, pg 129) and 30 adhesive labels for drawers to identify parts in kit

10 each: 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5401, 2N7000, MJE3055T, MPSA18, MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120

100 each: 2N3904, 2N3906, PN2222, PN2907



Part No.	Description	Wt. (lbs.)	1	5
82595	560 pcs. (20 types) NPN, PNP transistor kit	5.1	\$69.95	\$59.95
130374	Refill for 82595 (560 pcs.)	0.4	54.95	49.95

\* ADF = Adafruit | ARI = Aries Electronics | FSC = Fairchild Semi | MOT = Motorola | NJS = New Jersey Semi | NTE = NTE Electronics | ON = ON Semi | ST = ST Micro | ♦ Major Brands

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box



Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)



## J-FETs

\* Web Code: JAD

Part No.	Mfr.	Product No.	Pkg.	Channel	BV <sub>GS</sub> @ Ig(μA)	I <sub>SS</sub> (mA) @ V <sub>DS</sub>	* Order in multiples of 10		
							1	10	100
26403	♦	MPF102	TO-92	N	-25 @ -10	2 @ 15	\$1.49	\$1.35	\$1.19
954390	FSC	J112	TO-92	N	-35 @ -50	5 @ 15	.....	.....	.....
210622	♦	2N3819	TO-92	N	-25 @ -1	20 @ 15	.69	.59	.39
253948	♦	2N5457	TO-92	N	-25 @ -10	1 @ 15	.85	.75	.59
253577	FSC	2N5486	TO-92	N	-25 @ -1	8 @ 15	.89	.79	.65
38527	♦	2N5951	TO-92	N	-30 @ -1	7 @ 15	.79	.69	.59
253913	♦	2N5460	TO-92	P	40 @ 10	-1 @ -15	.85	.75	.59
253905	♦	2N5461	TO-92	P	40 @ 10	-2 @ 15	.79	.69	.59

## Hexfet Power MOSFETs

\* Web Code: HDU

Part No.	Mfr.	Part No.	Pkg.	Channel	BV <sub>DS</sub>	Min. On-St. Drain Source	* Order in multiples of 10		
							1	10	100
1563147	IRFZ44NPBF	TO-220AB	N	55	49A	.....	\$1.29	\$1.09	\$.89
1560051	IRF540NPBF	TO-220AB	N	100	33A	.....	1.39	1.19	.89
1559965	IRF5305PBF	TO-220AB	P	-55	-31A	.....	1.39	1.19	.95

## N-Channel & P-Channel MOSFETs

\* Web Code: GCI

Part No.	*Mfr.	Product No.	Pkg.	Channel	BV <sub>DS</sub>	Min. On-St. Drain Source	* Order in multiples of 10		
							1	10	100
812391	ST	STP80NF03L-04	TO-220	N	30	80A ..... \$1.49	\$1.25	\$ .95	
2001373	ST	STP16NF06L	TO-220	N	60	16A ..... .69	.59	.45	
669871	✦	IRFZ24N	TO-220AB	N	55	17A ..... .89	.79	.59	
669935	✦	IRFZ34N	TO-220AB	N	55	26A ..... 1.09	.89	.69	
669943	✦	IRLZ34N	TO-220AB	N	55	30A ..... 1.09	.89	.69	
669951	✦	IRFZ44N	TO-220AB	N	55	49A ..... 1.25	1.05	.85	
669978	✦	IRFZ46N	TO-220AB	N	55	53A ..... 1.29	1.09	.89	
669986	✦	IRFZ48N	TO-220AB	N	55	64A ..... 1.19	.95	.75	
256031	✦	BS170	TO-92	N	60	0.5A (max.) ..... *	.17	.09	
1217519	FSC	BS170	TO-92	N	60	0.5A (max.) ..... .35	.25	.11	
670098	✦	IRFP250N	TO-247AC	N	200	30A ..... 1.75	1.49	1.25	
670101	✦	IRFP260N	TO-247	N	200	50A ..... 2.49	2.19	1.89	
670135	✦	IRFP450	TO-247	N	500	14A ..... 2.25	2.05	1.75	
670143	✦	IRFP460	TO-247	N	500	20A ..... 2.95	2.75	2.49	
2218089	FSC	FQA19N60	TO-3	N	600	18.5A ..... .99	.89	.75	
209234	✦	IRF510	TO-220	N	100	5.6A ..... .69	.59	.45	
1559885	INR	IRF510PBF	TO-220	N	100	5.6A ..... .75	.59	.45	
209226	✦	IRF520	TO-220	N	100	10A ..... .75	.65	.45	
1559906	INR	IRF520PBF	TO-220	N	100	10A ..... .79	.69	.49	
209058	✦	IRL520	TO-220	N	100	9.2A ..... .89	.79	.59	
210500	✦	IRF530	TO-220	N	100	14A ..... .79	.69	.59	
670151	✦	IRF530N	TO-220AB	N	100	17A ..... .79	.69	.59	
670160	✦	IRL530N	TO-220AB	N	100	17A ..... 1.09	.89	.75	
210518	✦	IRF540	TO-220	N	100	27A ..... 1.09	.89	.79	
670194	✦	IRL540N	TO-220AB	N	100	36A ..... 1.39	1.09	.95	
210534	✦	IRF630	TO-220	N	200	9.0A ..... .79	.69	.59	
210542	✦	IRF640	TO-220	N	200	18A ..... 1.09	.99	.79	
670231	✦	IRF644	TO-220AB	N	250	14A ..... .89	.79	.59	
210551	✦	IRF730	TO-220	N	400	5.5A ..... .79	.69	.59	
210569	✦	IRF740	TO-220	N	400	10A ..... 1.19	1.09	.85	
2203661	MOT	MTP10N40E	TO-220AB	N	400	10A ..... .79	.69	.59	
210577	✦	IRF820	TO-220	N	500	4.0A ..... .69	.49	.39	
210585	✦	IRF830	TO-220	N	500	4.5A ..... .89	.69	.59	
184719	✦	IRF840	TO-220	N	500	8.0A ..... 1.19	.99	.79	
2217852	✦	BUZ77A	TO-220	N	600	2.7A ..... .29	.25	.19	
2217861	✦	BUZ78	TO-220AB	N	800	1.5A ..... .29	.25	.22	
787798	FSC	RFP12N10L	TO-220AB	N	100	12A ..... .79	.59	.49	

## N-Channel & P-Channel MOSFETs (Cont.)

\* Web Code: GCI

						* Order in multiples of 10				
Part No.	*Mfr.	Product No.	Pkg.	Channel	BV <sub>DS</sub>	Min. On-St. Drain Source	1	10	100	
618089	◆	IRF3205	TO-220	N	55	110A ..... \$1.75	\$1.45	\$1.25		
785590	FSC	FQP50N06	TO-220	N	60	50A ..... 1.29	1.09	.89		
119423	◆	2N7000	TO-92	N	60	0.3A ..... *	.14	.07		
178669	FSC	2N7000*	TO-92	N	60	0.2A ..... *	.19	.09		
140169	◆	2N7002	SOT-23	N	60	0.5A ..... *	.25	.19		
2210626	INR	IRLB8721PBF	TO-220AB	N	30	62A ..... .89	.75	.49		
256057	◆	BS250	TO-92	P	-45	0.25A (max.) ... .59	.49	.45		
1944901	◆	ZVP3306A	TO-92	P	-60	-0.16A† ..... .59	.49	.35		
670442	◆	IRF4905	TO-220AB	P	-55	-74A ..... 1.85	1.49	1.35		
670485	◆	IRF5305	TO-220AB	P	-55	-31A ..... 1.29	1.19	.89		
670581	◆	IRF9234N	TO-220AB	P	-55	-19A ..... 1.09	.99	.75		
670629	◆	IRF9520	TO-220AB	P	-100	-6A ..... .79	.65	.49		
670741	◆	IRF9530	TO-220AB	P	-100	-12A ..... .99	.89	.69		
670637	◆	IRF9530N	TO-220AB	P	-100	-14A ..... 1.09	.89	.79		
670645	◆	IRF9540N	TO-220AB	P	-100	-23A ..... .99	.79	.69		
670653	◆	IRF9640	TO-220AB	P	-200	-11A ..... 1.29	.99	.89		

\*10 pcs. in Transistor cabinet kit, pg 11 †DMOS FET

## Diodes

\* Web Code: PAK

					* Order in multiples of 10		
Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
2220533	◆	1N34A	DO-7	65PRV (Germanium) .....	\$1.75	\$1.49	\$1.25
35941	◆	1N270*	DO-7	80PRV (Germanium) .....	1.09	.99	.89
312101	◆	MBR1100	DO-41	100PRV, 1.0A (Schottky) .....	.35	.25	.19
36038	◆	1N4148**	DO-35	75PRV, 0.01A (Switching) .....	*	.04	.03
151247	◆	1N4148T	DO-35	75PRV, 0.01A (tape/reel) .....	.25	.05	.02
179215	VSH	1N4148	DO-35	100PRV (Switching) .....	*	.05	.03
743285	FSC	1N4148	DO-35	75PRV, 0.01A (Switching) .....	*	.05	.03
656042	◆	1N4150	DO-35	75BV, 0.4A (Ultrafast) .....	*	.12	.06

\*10 pcs./\*\*100 pcs. in Diode/Rectifier cabinet kit, pg 13

## Zener Diodes

\* Web Code: LAF

						* Order in multiples of 10		
Part No.	*Mfr.	Product No.	Pkg.	V <sub>Znom</sub>	Pwr Dissipation	1	10	100
36290	◆	1N751A	DO-35	5.1V	0.5W .....	*	\$ .12	\$ .07
2245888	NJS	1N3824A	DO-13	4.3V	1W .....	7.95	6.95	5.95
2245861	NJS	1N4473	DO-41	22V	1.5W .....	5.95	5.49	4.95
36097	◆	1N4733A*	DO-41	5.1V	1W .....	*	.15	.07
36118	◆	1N4734A	DO-41	5.6V	1W .....	*	.15	.07
36126	◆	1N4735A	DO-41	6.2V	1W .....	*	.15	.07
178837	◆	1N4739A	DO-41	9.1V	1W .....	*	.15	.07
36169	◆	1N4742A*	DO-41	12V	1W .....	*	.15	.07
36185	◆	1N4744A	DO-41	15V	1W .....	*	.15	.07
782922	FSC	1N4749AT/R	DO-41	24V	1W .....	.25	.19	.08
2245909	NJS	1N4964	DO-41	18V	5W .....	9.95	8.95	7.95
179004	◆	1N5225B	DO-35	3.0V	0.5W .....	*	.11	.05
743488	FSC	1N5226B	DO-35	3.3V	0.5W .....	*	.11	.05
179039	◆	1N5230B	DO-35	4.7V	0.5W .....	.25	.11	.04
179047	◆	1N5231B	DO-35	5.1V	0.5W .....	*	.11	.04
179098	FSC	1N5242B	DO-35	12V	0.5W .....	*	.022	.02
804754	ON	1N5349BG	Axial	200V	5W .....	.29	.25	.19
804818	ON	1N5352BG	Surmetic-40	15V	5W .....	.49	.35	.19
804914	ON	1N5359BG	Surmetic-40	24V	5W .....	.45	.35	.19
2245802	NJS	1N5803	DO-13	185V	2W .....	2.95	2.75	2.49
2245917	NJS	1N6072A	DO-13	185V	1500W .....	12.95	11.49	9.95

\*10 pcs. in Diode/Rectifier cabinet kit, pg 13

\* FSC = Fairchild Semi | INR = International Rectifier | MOT = Motorola | NJS = New Jersey Semi | ST = ST Micro | VSH = Vishay Technology | ♦ Major Brands



## Small Signal Diodes

\*Web Code: JDQ

Part No.	Mfr.	Product No.	Pkg.	Description	Order in multiples of 10		
					10	100	1000
36311	♦	1N914**	DO-35	75PRV, 0.01A .....	\$ .06	\$ .025	\$ .015
655269	♦	1N914A	DO-35	100VRRM, 0.2A .....	.06	.03	.02
655277	FSC	1N914B	DO-35	75PRV, 0.01A .....	.07	.05	.04

\*\*100 pcs. in Diode/Rectifier cabinet kit, below

## Diode/Rectifier Assortment Cabinet Kit

\*Web Code: CKS

420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 129 and 30 adhesive labels for drawers to identify parts in kit.

10 each: 1N270, 1N751A, 1N4001, 1N4007, 1N4150, 1N4733A, 1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M

100 each: 1N914, 1N4004, 1N4148



Part No.	Description	Wt. (lbs.)	1	5
82587	420 pcs. (15 types) diode kit	5.0	\$44.95	\$39.95
130366	Refill for 82587 (420 pcs.)	0.3	29.95	26.95

\*Transient Voltage Suppressors — Enter Web Code QBO

## Triacs

\*Web Code: PAE

Part No.	Mfr.	Product No.	Pkg.	Rating	1	10	100
160098	♦	HT-32	DO-35	27.37 V <sub>BO</sub> , 2A .....	\$ .29	\$ .25	\$ .19
31827	♦	SC146M	TO-220	600 V <sub>DRM</sub> , 10A (2N6344) .....	1.49	1.25	1.05
160207	TEC	Q4008L4	TO-220AB	400 V <sub>DRM</sub> , 8A .....	1.39	1.29	1.19
160215	TEC	Q6008L5	TO-220AB	600 V <sub>DRM</sub> , 8A .....	1.29	1.19	1.09
160231	TEC	Q6015L5	TO-220AB	600 V <sub>DRM</sub> , 15A .....	2.49	2.25	1.85
2034010	ST	BT412-600BWRG	TO-220AB	600 V <sub>DRM</sub> , 30A .....	1.39	1.19	.89
220521	TEC	Q6035P5	TO-3	600 V <sub>DRM</sub> , 35A .....	6.95	6.25	5.59
140425	♦	2N6071A	TO-225AA	200 V <sub>DRM</sub> , 4A .....	.49	.45	.35

## SanRex® Fast-On Package Triac

Part No.	Mfr. Part No.	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
658275	TG35F60	Fast-On	Isolated 35A, 600V .....	\$8.95	\$7.95	\$6.95

## Rectifiers

\*Web Code: LBD

Part No.	Mfr.	Product No.	Pkg.	Rating	* Order in multiples of 10			
					1	10	100	1000
177754	TAT	T6A05L	T6L	50 PIV, 6A .....	\$ .39	\$ .35	\$ .29	\$ .25
177762	TAT	T6A10L	T6L	100 PIV, 6A .....	.49	.45	.39	.35
177818	TAT	T6A100L	T6L	1000 PIV, 6A .....	.69	.59	.49	.45
35924	♦	1N1188	DO-5	400 PRV, 35A .....	4.25	3.75	3.35	3.15
2197610	KST	1N1190A	DO-5	600 PRV, 40A .....	4.95	3.95	3.49	2.95
2197628	KST	1N1190RA†	DO-5	600 PRV, 40A .....	3.95	3.75	3.49	3.25
2245870	NJS	1N3495	DO-21	100 PRV, 2.5A .....	5.95	5.49	4.95	4.49
35975	♦	1N4001*	DO-41	50 PRV, 1A .....	*	.12	.05	.03
76961	♦	1N4002	DO-41	100 PRV, 1A .....	*	.12	.05	.03
76970	♦	1N4003	DO-41	200 PRV, 1A .....	*	.12	.05	.03
35991	♦	1N4004**	DO-41	400 PRV, 1A .....	*	.12	.05	.03
76988	♦	1N4005	DO-41	600 PRV, 1A .....	*	.12	.05	.03
76996	♦	1N4006	DO-41	800 PRV, 1A .....	*	.12	.05	.03
36011	♦	1N4007*	DO-41	1000 PRV, 1A .....	*	.12	.05	.03
36012	♦	1N4007-R	DO-41	1000 PRV, 1A .....	*	.12	.05	.03
1537951	DDI	1N4007-T	DO-41	1000 V <sub>RRM</sub> , 1A .....	*	.12	.05	.03
36249	♦	1N5401	DO-201AD	100 PIV, 3A .....	*	.12	.10	.08

\*10 pcs./ \*\*100 pcs. in Diode/Rectifier cabinet kit, above †Reverse polarity

## Rectifiers (Continued)

\*Web Code: LBD

Part No.	Mfr.	Product No.	Pkg.	Rating	* Order in multiples of 10			
					1	10	100	1000
77083	♦	1N5402	DO-27A	200 PRV, 3A .....	* .12	* .10	* .08	
36265	♦	1N5404*	DO-27A	400 PRV, 3A .....	* .12	* .10	* .08	
36273	♦	1N5408*	DO-27A	1000 PRV, 3A .....	* .10	* .08	* .06	
36274	♦	1N5408	DO-27A	1000 PRV, 3A .....	* .13	* .11	* .09	
2245829	NJS	1N5802	Axial	100 PRV, 2.5A .....	2.95	2.75	2.49	2.25
2245811	NJS	1N5804	Axial	50 PRV, 2.5A .....	2.95	2.75	2.49	2.25
2245845	NJS	1N5806	Axial	400 PRV, 2.5A .....	3.95	3.59	3.25	2.95
177949	♦	1N5817	DO-204AL	20 PIV, 1A .....	* .12	* .10	* .08	
177957	♦	1N5818	DO-204AL	30 PIV, 1A .....	* .14	* .12	* .10	
177965	♦	1N5819	DO-204AL	40 PIV, 1A .....	* .14	* .12	* .10	
177973	♦	1N5820	DO-201AD	20 PIV, 3A .....	.35	.29	.19	.15
177990	♦	1N5822	DO-201AD	40 PIV, 3A .....	.39	.29	.19	.15
2230011	♦	P600M	P600	1000VRRM, 6A .....	.29	.25	.19	.15

\*10 pcs. in Diode/Rectifier cabinet kit, left

## Bridge Rectifiers

\*Web Code: MBD

Part No.	Mfr.	Product No.	Pkg.	Rating	1	10	100
178001	♦	DF005M	DF	50 V <sub>RRM</sub> , 1A .....	\$ .29	\$ .25	\$ .19
103000	♦	DF01M	DF	100 V <sub>RRM</sub> , 1A .....	.29	.25	.19
103042	♦	DF02M	DF	200 V <sub>RRM</sub> , 1A .....	.35	.29	.19
103034	♦	DF06M	DF	600 V <sub>RRM</sub> , 1A .....	.39	.35	.25
145429	♦	KBP02M	KBP	200 V <sub>RRM</sub> , 1.5A .....	.39	.29	.19
119562	♦	KBP04M*	KBP	400 V <sub>RRM</sub> , 1.5A .....	.39	.35	.29
103018	♦	W02G	WOG	200 V <sub>RRM</sub> , 1.5A .....	.49	.45	.39
102980	♦	W04G	WOG	400 V <sub>RRM</sub> , 1.5A .....	.59	.55	.45
178132	♦	W01M	WOM	100 V <sub>RRM</sub> , 1.5A .....	.35	.29	.22
178183	TAT	BR805D	BR8D	50 PIV, 2A .....	.45	.39	.35
678137	♦	2KBP04M	KBP	400 V <sub>RRM</sub> , 2A .....	.29	.25	.19
253260	♦	2KBP06M	KBP	600 V <sub>RRM</sub> , 2A .....	.39	.29	.25
2231195	DDI	RS207	KBP	1000 PIV, 2A .....	.59	.49	.39
1541466	DDI	RS405L	RS-4L	600 V <sub>RRM</sub> , 4A .....	.69	.59	.49
1545416	♦	KBU8B	KBU	100 V <sub>RRM</sub> , 8A .....	1.49	1.25	1.09
2138871	♦	GBU4J	GBU	600 V <sub>RRM</sub> , 4A .....	.69	.59	.39
2126133	♦	SBU8J	SBU	600 V <sub>RRM</sub> , 8A .....	.79	.69	.59
299874	♦	GBPC1206	GBPC (screw)	600 V <sub>RRM</sub> , 12A .....	1.75	1.49	1.25
2132242	♦	GBPC1208W	GBPC-W (wire)	800 V <sub>RRM</sub> , 12A .....	.39	.29	.19
178280	♦	MB254	MB35	400 V <sub>RRM</sub> , 25A .....	2.49	2.25	1.95
178431	♦	MB358	MB35	800 V <sub>RRM</sub> , 35A .....	2.49	2.25	1.95
25574	♦	MDA990-3	179-01	200 PIV, 30A .....	2.95	2.59	2.29
25591	♦	MDA990-6	230-B	600 PIV, 30A .....	2.95	2.75	2.49
178503	TAT	TB3510	TB35	1000 PIV, 35A .....	3.25	2.95	2.75

\*10 pcs. in Diode/Rectifier cabinet kit, above left

## Silicon Controlled Rectifiers (SCRs)

\*Web Code: BAB

Part No.	Mfr.	Product No.	Pkg.	Rating	1	10	100
14859	♦	C38M	TO-65	600 PRV, 35A (2N3899) ...	\$5.95	\$5.49	\$4.95
14736	♦	C106B1*	TO-202	200 PRV, 4A (2N6239)†	.79	.69	.59
14761	♦	C122M	TO-220	600 PRV, 8A .....	1.39	1.25	1.09
160119	♦	T106D1	TO-202AB	400 PRV, 4A .....	.69	.59	.49
2245896	NJS	2N1599	TO-39	400 PRV, 1mA .....	9.95	8.95	7.95
119802	♦	2N5060	TO-92	25 PRV, 0.8A .....	.45	.35	.25
211422	♦	2N5061	TO-92	60 PRV, 0.8A .....	.59	.49	.45
160135	TEC	S6025L	TO-220AB	600 V <sub>DRM</sub> , 25A .....	1.95	1.75	1.49
140417	♦	2N6507	TO-220AB	400 PRV, 25A .....	1.25	.99	.79
885654	ON	2N6509	TO-220AB	800 V <sub>DRM</sub> , 25A .....	1.29	1.15	.89

†Isolated \*10 pcs. in Diode/Rectifier cabinet kit, above left

\* DDI = Diode Inc. | FSC = Fairchild Semi | KST = KEST | NJS = New Jersey Semi | ON = ON Semi | ST = ST Micro | TAT = Taitron | TEC = Teccor Elec. | ♦ Major Brands

\*For additional products, availability and specifications visit [Jameco.com](http://www.Jameco.com) and enter the Web Code in the product search box



Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Heat Sinks, Heat Sink Compounds & Coolers

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

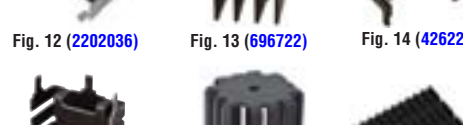


## Heat Sinks

\*Web Code: JAB

- Material: black anodized aluminum
- P/N 42622 can be mounted vertically with solderable mounting tabs

Part No.	Mfr.	Product No.	Fig.	Type	Holes	Size (L" x W" x H")	1	10	100
2077335	AVD	501200B00	1	DIP-14/16	0	0.73 x 0.25 x 0.19	\$.49	\$.45	\$.39
1115900	AVD	580200B00000G	2	DIP-14/16	0	0.84 x 0.60 x 0.41	1.25	1.09	.89
2150934	JVP	205-00036-001	1	DIP-14/16	0	1.18 x 0.64 x 0.65	.39	.29	.25
2202052	ADT	630-160	3	TO-3	4	1.60 x 1.32 x 1.00	.49	.45	.39
2202044	ADT	635-180	4	TO-3	4	1.80 x 1.80 x 1.25	1.95	1.75	1.49
189835	AVD	501303B00000G	4	TO-3	4	1.90 x 1.40 x 0.50	1.95	1.75	1.49
1114579	AVD	501603B00000G	5	TO-3	4	1.90 x 1.40 x 1.25	1.49	1.25	1.09
16513	JVP	DUDE4	6	TO-3	4	4.75 x 1.50 x 1.25	3.75	3.25	2.75
2145086	AVD	322605B00000G	7	TO-5	1	0.75 x 0.75 x 0.236	.89	.79	.69
2202028	ADT	529801	8	TO-218	1	1.38 x 0.50 x 1.00	.79	.69	.59
326757	JVP	THM6298B2	8	TO-218	3	1.64 x 1.00 x 1.50	.99	.89	.75
326693	JVP	531002B05200	8	Undrilled	0	1.75 x 1.75 x 1.50	.99	.89	.79
326713	JVP	531102B02500	8	TO-220	3	1.38 x 0.50 x 1.50	.99	.89	.79
2231873	AVD	507228B00000G	10	TO-220 (dual)	2	1.47 x 0.70 x 3.75	.55	.45	.35
2155022	JVP	BK-T220-0082	9	TO-220	1	1.75 x 0.70 x 0.37	.39	.29	.25
2155014	AVD	THM6071	10	TO-220 (open back)	1	1.75 x 0.70 x 0.37	.39	.29	.25
326765	JVP	531302B02500	8	TO-220/202	3	2.50 x 1.38 x 0.50	.99	.89	.79
696626	AVD	530002B02500	8	TO-220	1	2.52 x 1.65 x 1.00	1.95	1.75	1.49
696714	AVD	577002B00000G	11	TO-220	1	0.52 x 0.25 x 0.75	.45	.39	.35
158051	AVD	577102B00000G	11	TO-220	1	0.75 x 0.52 x 0.25	.29	.25	.22
1115643	AVD	577202B00000G	11	TO-220	1	0.52 x 0.50 x 0.75	.39	.35	.29
326596	JVP	507302B000000	11	TO-220	1	0.75 x 0.75 x 0.38	.29	.25	.17
70658	JVP	THM6073	11	TO-220	1	0.75 x 0.75 x 0.38	.35	.29	.19
2202036	AVD	THM6110B-MT	12	TO-220	1	1.00 x 0.50 x 0.72	.49	.45	.39
129242	JVP	THM6106	11	TO-220	1	1.18 x 1.00 x 0.50	.75	.69	.59
696722	AVD	581002B02500G	13	TO-220	1	0.64 x 0.64 x 1.00	1.95	1.75	1.49
42622	AVD	563002B000000	14	TO-220	1	1.18 x 1.00 x 0.50	.59	.49	.45
2155348	AVD	THM6038	15	TO-220	0	1.18 x 1.00 x 0.50	.45	.35	.29
2235671	AVD	6222BG	16	Bridge rectifier	1	1.06 x 1.06 x 1.25	.99	.89	.79
2272615	ADT	50175-175A	17	Bridge rectifier	1	1.06 x 1.06 x 1.25	1.49	1.25	1.09



## Heat Sink Compounds



\*Web Code: YBA

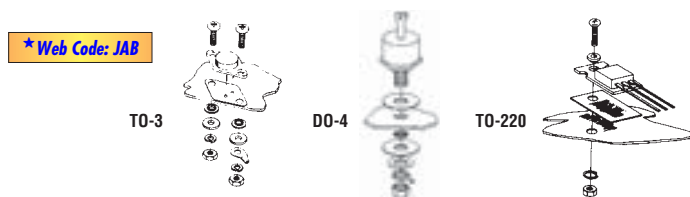


Part No.	Manufacturer	Description	Vol. (oz.)	1	5
615355	GC Electronics	100% synthetic base stocks type 44	16	\$32.95	\$29.95
2246709	Caig/DeoxIT	Silicon based zinc oxide & polydimethyl siloxane	0.21	4.95	4.49
236823	ValuePro	Silicon based grease	0.35	4.95	4.49
167249	Aavid Thermalloy	Silicon based grease	2	10.79	10.25
169252	Techspray	Silicon free	4	28.95	27.95
259151	NTE	White gel, thermal grease (5 pack)	0.35	3.49	2.95
615304	GC Electronics	Zinc oxide-filled silicon grease	16	20.49	19.49
615312	GC Electronics	Zinc oxide-filled silicon grease	0.23	3.95	3.59
615321	GC Electronics	Zinc oxide-filled silicon grease	1	6.95	6.25

## Heat Sink Mounting Kits

- TO-3, DO-4 and TO-220 heat sink insulator assembly mounting kits

\*Web Code: JAB



Part No.	Type	No. of Pieces	No. of Pack	1	10	100
2227292	TO-3	12	1	\$1.49	\$1.25	\$1.09
34139	TO-3	120	10	8.95	7.95	6.95
2227305	DO-4	6	1	.99	.89	.75
2227284	TO-220	5	1	1.29	1.15	.99
34121	TO-220	50	10	7.95	6.95	5.95

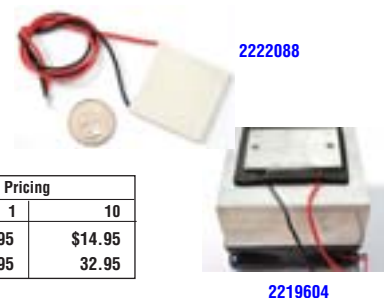
## Peltier Thermoelectric Coolers

\*Web Code: TEC

Quite possibly the coolest thing since cubed ice! These are active cooling (or heating) modules that create a temperature difference when power is applied. One side will get cold while the other side gets hot. A fan or heat sink is still recommended for the hot side, but the cold side will be much lower than ambient or with a fan alone. Power supply required.

Part No.	Description	Max. Cooling Power	Temperature differential (Tmax @ Qc = 0)	Size (mm) (L x W x H)	Pricing	
					1	10
222088	13.3" wires, use a 12V @ 5A power supply*	97W @ 15.3V	66°C	40 x 40 x 3.3	\$16.95	\$14.95
2219604	11" wires, use a 12V @ 5A power supply	60W @ 12V	66°C	40 x 40 x 79	34.95	32.95

\*Heat sink and fan not included



\* ADT = Arndt | AVD = Aavid Thermalloy | JVP = Jameco ValuePro



# Optoisolators, Optocouplers & LED Accessories



## Optoisolators

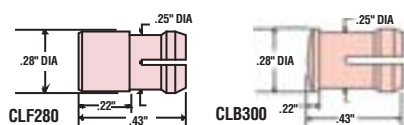
\*Web Code: CAG

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
40985	♦	4N25	DIP-6	NPN phototransistor output	\$.25	\$.22	\$.19
41005	♦	4N26	DIP-6	NPN phototransistor output	.35	.29	.22
41013	♦	4N28	DIP-6	NPN phototransistor output	.25	.22	.15
41021	♦	4N32	DIP-6	NPN photodarlington output	.49	.39	.29
41030	♦	4N33	DIP-6	NPN photodarlington output	.55	.39	.29
41056	♦	4N35	DIP-6	NPN phototransistor output	.29	.25	.22
1872628	OPT	OPB606A	DIP-4	NPN phototransistor	1.49	1.35	1.19
320653	♦	PS2501-1	DIP-4	Single NPN phototransistor output	.45	.35	.25
320661	♦	PS2501-2	DIP-8	Dual NPN phototransistor output	1.19	1.09	.95
160338	♦	PS2501-4	DIP-16	Quad NPN phototransistor output	1.65	1.39	1.19
320688	♦	PS2502-1	DIP-4	Darlington photocoupler	.79	.69	.59
160362	♦	PS2502-4	DIP-16	Quad NPN photodarlington output	2.49	2.25	1.95
320805	♦	PS2532-4	DIP-16	Quad hi collector to emitter voltage	1.75	1.49	1.25
26278	♦	MOC3010	DIP-6	Bilateral sw. non-zero crossing triac	.59	.49	.35
95020	♦	MOC3011	DIP-6	Random phase, triac driver output	.49	.39	.29
277780	♦	MOC3020	DIP-6	Bilateral sw. non-zero crossing triac	.49	.39	.29
95038	♦	MOC3021	DIP-6	Random phase, triac driver output	.65	.49	.29
26294	JVP	MOC3031	DIP-6	Zero-crossing, triac driver output	.59	.49	.39
2006414	LTO	LTR-5986D	SIP-3	NPN phototransistor/detector	.29	.12	.10

\*Distance and Light Kits — Enter Web Code DLK

## VCC™ T1¾ Ciplite® LED Lens Mounts

Standard CLF280 and low profile CLB300 provide 180° viewing angle. Colors: red and clear.



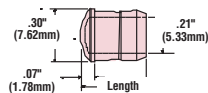
\*Web Code: KAL

Part No.	Mfr. Part No.	Size	Color	1	10	100
14277	CLF280CTP	T1 ¾	Clear	\$.49	\$.45	\$.35
124927	CLB300CTP	T1 ¾	Clear	.45	.39	.35

## VCC™ Panel Lens for PCB Mounted T1¾ LED

T1-3/4 size low-profile panel lenses provide 180° viewing angle.

\*Web Code: KAL



Part No.	Mfr. Part No.	Size	Color	Length	1	10	100
143132	CMC321CTP	T1 ¾	Clear	.33"	\$.49	\$.45	\$.35

## VCC™ Ciplite T1¾ Moisture Sealed Low Profile Lens

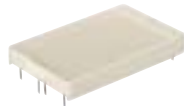
Low profile Fresnel round lens with seal (watertight) firmly attach to panel permitting an LED to be easily inserted, and removed from its LED lens mount. It eliminates electrostatic discharge, restricted viewing angle and assembly.



Part No.	Mfr. Part No.	Size	1	10	100
2244261	CMS322CTP	5mm	\$1.19	\$1.09	\$.99

## JAMECO ValuePro 1" x 1.56" LED Backlight

- IC compatible • D.C. forward current: 30mA
- Peak wavelength: 567nm @ 20mA
- View angle: 52°
- Forward voltage: (typical) 4.2V @ 20mA; (max) 6.0V @ 20mA
- Luminous intensity: (min) 14.9mcd @ 20mA; (typical) 24.8mcd @ 20mA



Part No.	Cross Ref. No.	LED Material	Emitting Color	Lens Color	1	10	100
302535	LT1F24-A2-S8	GaP	Green	Clear	\$.49	\$.44	\$.39

\* CLA = Clare | FSC = Fairchild | JVP = Jameco ValuePro | LIG = Ligitek | LTO = Lite On | OMR = Omron | OPT = Optek | SIE = Siemens | VCC = Visual Communications Company | ♦ Major Brands

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

## Optocouplers

\*Web Code: NAK

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
113911	♦	6N137	DIP-8	Hi CMR, hi-speed logic gate output	\$.89	\$.79	\$.59
42489	♦	6N138	DIP-8	Hi-speed photodarlington output	.79	.69	.59
18825	♦	H11AA1	DIP-6	AC input/phototransistor	.59	.45	.35
320493	FSC	H11D1	DIP-6	Hi voltage phototransistor	.39	.35	.25
672325	♦	MCT62	DIP-8	Dual channel NPN phototransistor	.49	.39	.35
2202378	LTO	LTH-1550-01	DIP-4	Photointerruptor-NPN phototransistor	.39	.35	.29
2006385	LTO	LTV-814H	DIP-4	Phototransistor output, AC input	.25	.19	.15
2215890	OMR	EE-SA105	DIP-4	Photomicrosensor (actuator)	3.95	3.59	2.89
878286	LTO	LTV-847	DIP-16	Quad ch. phototransistor output	.69	.59	.49
1583156	CLA	PD2401*	DIP-16	AC solid st. sw. w/ dual pwr SCR output	5.95	5.49	4.75

\*4 pins

## Slotted Optical Switches



\*Web Code: XAP

Part No.	Mfr.	Product No.	Pkg.	Description	1	10	100
114091	♦	H21A1	4-pin w/ tab	Single channel, 20mA (Ic)	\$2.75	\$2.49	\$2.25
320901	♦	H21A3	4-pin w/ tab	Single channel, 20mA (Ic)	1.75	1.45	1.29
2078282	SIE	IRLA075	4-pin w/ tab	Single channel, 50mA (Ic)	.99	.89	.79

## Vertical Mount Optical Tilt Switch

- Housing & base: glass-filled polyamide, UL94-V0
- Tilt angle housing: copper alloy, nickel plated
- Ball: stainless steel
- Life: 100,000 hours typical
- Reverse current: 10µA
- IR diode: infrared LED
- Forward input voltage: 1.2V
- Output current: 5mA



Part No.	Product No.	Pkg.	Description	1	10	100
2126547	RP-RUB-30-000-NB	4-pin	Optical tilt, 30°, 5mA (Ic)	\$.39	\$.35	\$.25

## VCC™ Conxrite Pre-Wired Solderless LED Interconnects

Designed to replace labor-intensive hard-wiring of panel-mounted LEDs to PCB.



Part No.	Mfr. Part No.	LED Size	Termination (leads)	Length	1	10	100
143037	CNXCE2108	T1 ¾ (5mm)	2-pin connector	8"	\$2.29	\$1.95	\$1.75
2219321	CNXCE4112	T1 ¾ (5mm)	2-pin connector	8"	2.49	2.25	1.95

## LIGITEK™ T1 & T1¾ LED Mounting Hardware

- Color: black

\*Web Code: KAL



Order in multiples of 10

Part No.	Mfr. P/N	Mfr.	Mounting Description	Panel Hole Dia.	Thickness	Pricing		
						10	100	1000
95513	LA27B	LIG	T1 snap-in	.185"	Up to .070"	\$.15	\$.12	\$.08
23077	PT18H013	JVP	T1 ¾ ring/clip	.257"	Up to .125"	.17	.14	.11
2231371	500B	VCC	LED spacer	.20"	—	.29	.25	.19

## JAMECO ValuePro 2-50mA T1 & T1¾ LED Tester

Pocket size LED tester makes it easy to check functionality, color, brightness and uniformity. Plug any leaded LED into one of 12 positions on the socket strip to test. The seven middle positions on the strip are set at 10mA allowing comparisons of LED's in those spaces.

NEW MARKED IN PINK



Part No.	Description	Size (L" x W" x H")	1	5	25
2236421	LED tester	3.1 x 2.3 x 0.8	\$9.95	\$8.95	\$7.95



Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Standard-Output LEDs

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

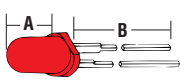


Fig. 1

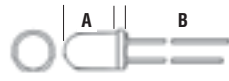


Fig. 2

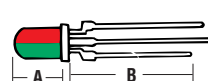


Fig. 3



Fig. 4

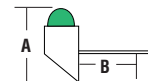


Fig. 5

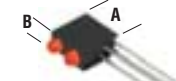


Fig. 6

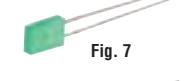


Fig. 7



Fig. 8

## Standard-Output LEDs

\* Web Code: FAF

\* Order in multiples of 10

Part No.	Product No.	Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
697565	LTL-4211N	LTO	1	Red	Red diffused tinted	T1	0.119/3	0.17	1.00	0.10	2.1	4.4	697	60	* \$ .10	\$ .08	\$ .06	
94529	LH2040	JVP	1	Red	Red diffused (XC209RB)	T1	0.119/3	0.18	1.04	0.07	2.3	4.5	697	36	* .12	.10	.08	
2186515	LTL-4202	LTO	1	Red	Red transparent	T1	0.119/3	0.20	0.94	0.10	1.7	5.6	655	45	.25	.05	.03	.02
697590	LTL-4221N	LTO	1	Hi-eff Red	Red diffused	T1	0.119/3	0.175	1.00	0.10	2.0	8.7	635	60	.25	.07	.06	.045
202471	MVL-301HR**	UNI	1	Red	Red diffused	T1	0.119/3	0.14	1.12	0.10	2.0	9.0	640	40	* .12	.10	.08	
2186620	LTL-1CHE-032	LTO	1	Hi-eff Red	Red diffused	T1	0.118/3	0.205	0.985	0.10	2.0	12.6	635	60	.25	.07	.055	.04
2006713	LTL-161CE	LTO	1	Hi-eff Red	Red diffused, flanged	T1	0.119/3	0.21	1.07	0.10	2.0	12.6	621	60	.25	.08	.06	.04
152785	LT0341R-41	JVP	1	Red	Red diffused	T1	0.119/3	0.20	0.89	0.10	2.1	15.5	635	56	* .12	.10	.08	
2186435	LTL-16KEE	LTO	2	Red	Red hi-eff transparent	T1	0.119/3	0.16	0.95	0.10	2.0	19	635	45	.25	.04	.03	.02
333851	UT6371-41-M1	JVP	1	Red	Red diffused	T1	0.119/3	0.17	0.98	0.10	1.8	65	660	60	* .12	.10	.08	
2197732	LSR2643-1	LIG	1	Red	Water clear	T1	0.119/3	0.13	1.04	0.10	2.1	120	660	40	* .15	.12	.10	
2081932	BVL-300E5D	JVP	2	OrangeRed	Red diffused	T1	0.119/3	0.17	1.00	0.10	2.1	18	632	45	.25	.04	.03	.02
2186371	LTL-1BEWJ	LTO	3	Red/Green	White diffused	T1	0.119/3	0.20	0.24	0.10	18/2.1	12.6/5.6	660/565	140	.25	.07	.06	.05
94553	LHG2062	JVP	1	Red/Green	White diffused bi-color/bi-state	T1	0.119/3	0.18	1.06	0.08	2.6	3/1.2	697/565	36	* .19	.15	.12	
156946	LT0362-25-D61	JVP	3	Red/Green	White diffused bi-color/tri-state	T1	0.119/3	0.16	0.87	0.08	2.1	2.7/13.3	700/567	50	.39	.35	.29	.25
2224163	WP115WEGW	KGB	3	Red/Green	White diffused bi-color/tri-state	T1	0.119/3	0.14	0.93	0.10	2.2	40/40	617/568	60	.35	.29	.25	.19
2133413	LUV34D-10.5	SLD	1	Yellow	Yellow diffused	T1	0.118/3	0.157	1.06	0.10	1.7	6.5	585	60	.25	.049	.035	.029
2155241	BVL-360YID	ADT	2	Yellow	Yellow diffused	T1	0.119/3	0.13	1.00	0.10	2.2	14	590	55	.25	.12	.10	.08
2125464	VX4SUGY91M	SLD	4	Yellow/Green	White diff. bi-color, quad-level	T1	0.119/3	0.47	0.20	0.10	2.1/2.2	24/6	590/565	130	.25	.15	.12	.10
2006705	LTL-1CHYE*	LTO	1	Yellow	Water clear, flanged	T1	0.119/3	0.21	1.07	0.10	2.1	40	585	45	.25	.07	.05	.035
2186363	LTL-14CDJ	LTO	1	Yellow/Grn	Green/Yellow diffused bi-color	T1	0.118/3	0.135	1.04	0.10	2.1	80	585/565	80	.25	.15	.12	.10
2194144	LTL-4231NLDLLC	LTO	1	Green	Green Diffused	T1	0.118/3	0.137	1.52	0.10	1.9	1.1	565	60	.25	.04	.03	.02
253631	HLMP-1503	FSC	1	Green	Green diffused	T1	0.119/3	0.19	1.00	0.10	2.1	5.0	565	60	* .15	.12	.09	
333201	LG12340	JVP	1	Green	Green diffused	T1	0.119/3	0.13	0.98	0.10	1.7	9.6	565	112	* .12	.10	.08	
697629	LTL-4231	LTO	1	Green	Green diffused	T1	0.119/3	0.20	1.00	0.10	2.1	12.6	569	40	* .12	.10	.08	
2194152	LTL-4231NLDLR1	LTO	1	Green	Green diffused	T1	0.118/3	0.135	1.42	0.10	2.1	12.6	565	60	.25	.04	.03	.02
211086	LTL-4231N-022	LTO	2	Green	Green diffused	T1	0.119/3	0.13	1.10	0.10	2.1	12.6	565	60	.25	.04	.03	.02
697637	LTL-4231N	LTO	2	Green	Green diffused	T1	0.119/3	0.175	1.00	0.10	2.1	12.6	565	60	* .09	.07	.055	
34606	LSG2040*	JVP	1	Green	Green diffused (XC209G)	T1	0.119/3	0.13	1.05	0.08	2.2	15	560	50	* .15	.12	.10	
2155233	BVL-360G1D	ADT	1	Green	Green diffused	T1	0.118/3	0.138	1.00	0.10	2.3	18	573	55	.25	.049	.035	.025
156930	LT0321-41-HE	JVP	1	Green	Green diffused	T1	0.119/3	0.16	0.88	0.10	2.1	32	567	56	* .15	.12	.10	
175679	LVG2041	JVP	1	Green	Green transparent	T1	0.119/3	0.17	0.69	0.08	2.2	129	565	30	* .15	.12	.10	
114681	LVG2043*	JVP	1	Green	Water clear (BG209)	T1	0.119/3	0.14	0.98	0.07	2.2	129	565	30	.25	.12	.10	.08
1995935	LTL-14CHJ	LTO	2	Grn/Red Org	White diffused bi-color	T1	0.119/3	0.18	1.06	0.08	2.1	4.8	630	200	.25	.19	.15	.12
137411	LVB2040	JVP	1	Blue	Blue diffused	T1	0.119/3	0.21	0.98	0.10	3.5	10	430	50	.79	.69	.59	.55
333383	LSB12640-1	JVP	2	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	466	40	.59	.49	.39	.29
2193977	MRB52D	ADT	1	Red	Red diffused	T1 ¼	0.197/5	0.253	1.13	0.10	2.0	1.0	660	60	.25	.07	.055	.039
34690	LFH3360*	JVP	1	Red	Red diff. blinking (XC5410) <sup>2</sup>	T1 ¼	0.197/5	0.30	0.94	0.07	3-12	2.8	697	—	.39	.35	.29	.25
94511	LH3330	JVP	1	Red	Red diffused (XC556RB)	T1 ¼	0.197/5	0.31	0.81	0.08	2.3	3.0	697	36	* .15	.12	.10	
253753	HLMP-3301	FSC	1	Red	Red diffused	T1 ¼	0.197/5	0.36	1.00	0.10	2.4	5.4	635	60	.29	.25	.22	.17
104248	LA93B/H-1*	JVP	5	Red	Red diffused (XC410R)	T1 ¼	0.197/5	0.35	0.89	0.08	2.3	6.5	697	46	.25	.21	.19	.15
302033	LT1814-81	JVP	2	Red	Red diffused	T1 ¼	0.197/5	0.34	0.94	0.10	2.1	10	700	10	.25	.12	.10	.08
2006730	LTL-307E-3**	LTO	1	Red	Red diffused	T1 ¼	0.197/5	0.34	0.86	0.10	2.3	12.6	635	40	.25	.09	.06	.04
2186321	LTL-4204	LTO	1	Red	Red transparent	T1 ¼	0.197/5	0.34	0.90	0.10	1.7	19	565	16	.25	.05	.04	.03

\* 10 pcs./\*\* 100 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 26 <sup>1</sup> Reverse polarity to change color <sup>2</sup> Volt. shown is operating volt. range; no current limiting resistor required

\* ADT = Arndt Electronics | FSC = Fairchild Semi | JVP = Jameco ValuePro | KGB = Kingbright | LIG = Ligitek | LTO = Lite On | SLD = Sunled Corp. | UNI = Unity Opto





## Standard-Output LEDs (Continued)

\* Web Code: FAF

\* Order in multiples of 10

Part No.	Product No.	Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
697602	LTL-4223	LTO	2	Red	Red diffused	T1 ¼	0.197/5	0.34	1.0	0.10	2.1	19	635	36	\$.25	\$.09	\$.06	\$.05
697522	LTL-307E-002A	LTO	1	Red	Red diffused	T1 ¼	0.197/5	0.34	0.86	0.10	2.3	19	635	50	.25	.15	.12	.09
790081	LTL-10223W	LTO	1	Red	Red diffused	T1 ¼	0.197/5	0.28	1.0	0.10	2.3	60	635	60	.25	.15	.12	.09
333973	UT1871-81-M1	JVP	1	Red	Red diffused	T1 ¼	0.197/5	0.34	0.98	0.10	1.7	75	660	25	*	.12	.10	.08
2186558	MSB557DA-OHM	LTO	1	Red	Red diffused (blinking)	T1 ¼	0.197/5	0.30	0.94	0.10	3.0	80	660	30	.25	.07	.05	.03
697611	LTL-4224	LTO	1	Hi-eff Red	Red transparent	T1 ¼	0.197/5	0.34	1.00	0.10	2.0	90	635	16	.25	.10	.08	.06
1109260	TLUV5300	VSH	3	Red/Green	White diffused bi-color/bi-state <sup>1</sup>	T1 ¼	0.197/5	0.30	1.00	0.10	3.0	2.5	630/565	60	.25	.12	.10	.08
334182	LHG3362	JVP	1	Red/Green	White diff. bi-color/solid state <sup>1</sup>	T1 ¼	0.197/5	0.34	0.98	0.10	1.7	1.2/4.5	697/565	30	*	.19	.17	.15
34673	LHG3392*	JVP	3	Red/Green	White diff. bi-color/tri-state	T1 ¼	0.197/5	0.30	1.02	0.03	2.3	3 & 12	697/565	70	*	.19	.15	.12
697557	LTL-30EFJ	LTO	3	Bright Red/Gm	White diffused, bi-color	T1 ¼	0.197/5	0.41	0.945	0.10	2.1/2.1	5.6/19	697/565	30	.25	.08	.06	.04
2186460	LTL-30WJNF	LTO	2	Red/Green	White diffused, bi-color	T1 ¼	0.197/5	0.34	0.83	0.10	1.8/2.1	60/29	660/565	60	.25	.12	.10	.08
1995960	LTL-30EHJ-002	LTO	3	Red/Orange/Gm	Diffused (3 lead)	T1 ¼	0.197/5	0.37	0.790	0.10	2.0/2.1	60/100	635/565	30	.25	.10	.08	.06
34711	LEG3362*	JVP	1	Orange/Gm	White diffused bi-color/bi-state <sup>1</sup>	T1 ¼	0.197/5	0.30	1.01	0.09	1.7	4.5	635/565	30	.25	.19	.15	.12
152857	LT1841R-81-R	JVP	1	Orange Red	Red diffused	T1 ¼	0.197/5	0.34	0.89	0.10	2.1	23.1	630	45	.25	.06	.05	.04
107393	LE3330	JVP	1	Orange Red	Orange diffused (XC556A)	T1 ¼	0.197/5	0.30	1.02	0.08	2.3	24	635	36	*	.12	.10	.08
2155268	BVL-501EID	JVP	2	Orange Red	Orange diffused	T1 ¼	0.197/5	0.30	1.00	0.10	2.1	50	622	25	.25	.09	.06	.04
34825	LY3330	JVP	1	Yellow	Yellow diffused (XC556Y)	T1 ¼	0.197/5	0.30	0.82	0.07	2.3	12	585	36	*	.15	.12	.10
1995927	LTL-10253	LTO	1	Yellow	Yellow diffused, flanged	T1 ¼	0.197/5	0.283	1.00	0.10	2.1	12.6	585	60	.25	.12	.10	.08
697696	LTL-4253	LTO	1	Yellow	Yellow diffused	T1 ¼	0.197/5	0.34	1.00	0.10	2.1	19	585	36	.25	.08	.06	.05
697549	LTL-307Y	LTO	2	Yellow	Yellow diffused	T1 ¼	0.197/5	0.34	0.90	0.10	2.1	29	585	50	*	.09	.055	.045
2193985	MYB51D	ADT	1	Yellow	Yellow diffused	T1 ¼	0.197/5	0.34	0.98	0.10	3.0	55	585	30	.25	.05	.04	.03
334108	UT1831-81-S	JVP	1	Yellow	Yellow diffused	T1 ¼	0.197/5	0.34	0.98	0.10	2.1	90	590	10	*	.12	.10	.08
693901	MCDL-5013GD	MCD	1	Green	Green diffused	T1 ¼	0.197/5	0.34	1.04	0.10	2.1	12.5	565	60	*	.10	.08	.06
697653	LTL-4233	LTO	1	Green	Green diffused	T1 ¼	0.197/5	0.36	1.00	0.10	2.1	19	565	36	*	.12	.10	.08
790217	LTL-307GE	LTO	1	Green	Green transparent	T1 ¼	0.197/5	0.36	0.88	0.10	2.1	19	565	50	.25	.05	.04	.03
697531	LTL-307G	LTO	1	Green	Green diffused	T1 ¼	0.197/5	0.36	0.88	0.10	2.1	19	565	50	*	.12	.10	.08
334086	LG13740	JVP	1	Green	Green diffused	T1 ¼	0.197/5	0.34	0.98	0.10	1.7	20	565	68	*	.10	.08	.06
333227	LG13530	JVP	2	Hi-eff green	Green diffused (flangeless)	T1 ¼	0.197/5	0.34	0.98	0.10	1.7	25	565	36	*	.12	.10	.08
34761	LG3330*	JVP	1	Green	Green diffused (XC556G)	T1 ¼	0.197/5	0.31	0.79	0.09	2.6	30	565	36	*	.15	.12	.10
104256	LA93B/G-1*	JVP	5	Green	Green diffused (XC410G)	T1 ¼	0.197/5	0.35	0.89	0.08	2.6	30	565	46	.29	.25	.19	.15
2230547	XLUG53C	SLD	1	Green	Green transparent	T1 ¼	0.197/5	0.35	1.00	0.10	2.0	79	565	20	*	.15	.12	.09
2193897	HB5-133	HJE	1	Green	Green diffused	T1 ¼	0.197/5	0.34	0.96	0.10	2.1	80	570	30	.25	.06	.049	.039
2133641	LT641G1HR-H206	JVP	6	Green/Red	Green/Red diffused (dual)	T1 ¼	0.197/5	0.49	0.24	0.10	2.1	28/40	567/635	38	.25	.17	.12	.10
138691	LVB3330	JVP	1	Blue	Blue diffused	T1 ¼	0.197/5	0.34	0.98	0.10	4.8	10	430	36	.99	.89	.75	.69
2152112	MCDL-10003SED	JVP	2	Hi-eff red	Red diffused	10mm	0.394/10	0.43	1.00	0.1	2.0	35	635	60	.59	.55	.49	.39
138683	LHR3630	JVP	2	Red	Red diffused	10mm	0.394/10	0.40	1.04	0.10	2.0	200	660	32	.25	.22	.17	.12
2152139	MCDL-10003ED-E	JVP	2	Orange	Orange diffused	10mm	0.394/10	0.43	1.00	0.1	2.0	25	610	60	.45	.39	.35	.29
2152121	MCDL-10003SYD	JVP	2	Yellow	Yellow diffused	10mm	0.394/10	0.43	1.00	0.1	2.0	35	590	60	.59	.55	.49	.39
2152104	MCDL-10003SGD	JVP	2	Green	Green diffused	10mm	0.394/10	0.43	1.00	0.1	2.2	50	570	60	.59	.55	.49	.39
2152147	MCDL-10003SBD	JVP	2	Blue	Blue diffused	10mm	0.394/10	0.43	1.00	0.1	4.2	20	430	60	1.49	1.35	1.19	.99
104889	LEG5292	JVP	7	Orange/Gm	White diff. bi-color rectangular	2x5mm	0.078/5	0.27	1.02	0.08	2.3	6/6	635/565	116	.39	.35	.25	.15
2186347	LTL-3231A	LTO	7	Green	Green diffused rectangular	2x5mm	0.078/5	0.30	1.00	0.10	2.1	2.5	565	140	.25	.19	.12	.05
790356	LTL-433G	LTO	7	Green	Green diffused, rectangular	2x5mm	0.078/5	0.30	1.00	0.10	2.1	3.7	565	140	.29	.25	.15	.07
2133464	SSL-3353SYD	LUM	8	Yellow	Yellow diffused, square	3x3mm	0.119/3	0.18	1.00	0.10	2.5	100	590	80	.29	.25	.15	.07
2230601	XSFRS23MBBA	JVP	7	Blue	White triple diffused	5x5mm	0.197/5	0.28	0.198	0.10	3.3	258	—	110	.79	.69	.59	.45

\*10 pcs. in LEDs & LED mounting hardware cabinet kit, pg 26

<sup>1</sup> Reverse polarity to change color

## LED MOUNTING HARDWARE

See Pages 15 and 26

\* Web Code: KAL

\* HJE = Huey Jann Electronics | JVP = Jameco ValuePro | LTO = Lite On | LUM = Lumex | MCD = MCD Electronics | SLD = Sunled Corp. | VSH = Vishay

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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## Medium-Output LEDs

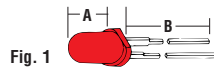


Fig. 3

**NEW**  
MARKED IN PINK

\*Web Code: MBW

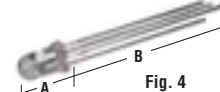
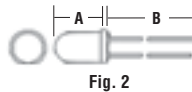
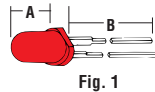
\* Order in multiples of 10

Part No.	Product No.	Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
156954	UT0373-41	JVP	1	Red Super Bright	Water clear	T1	0.119/3	0.16	0.94	0.10	1.8	100	660	36	* .19	.15	.12	.12
206498	LHR-2041	JVP	1	Red	Red transparent	T1	0.119/3	0.20	1.00	0.10	1.5	350	660	30	.25	.15	.12	.10
2186646	LTL-CHKFKNN	LTO	1	Orange	Water clear	T1	0.119/3	0.11	0.94	0.10	2.1	320	611	45	.25	.07	.055	.045
206480	LVY2041	JVP	1	Yellow	Yellow transparent	T1	0.119/3	0.20	1.00	0.10	1.7	450	595	30	* .12	.10	.08	.08
2133632	LT033N-41-UR91	ADT	1	Yellow	Water clear	T1	0.119/3	0.20	0.89	0.10	1.9	700	589	35	.25	.05	.04	.03
333307	LUY2643-1	JVP	1	Yellow	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	900	595	40	.25	.19	.15	.12
98968	QLMP-LB98	AVT	2	Blue	Blue clear (oval)	T1	0.119/3	0.28	0.94	0.10	3.2	550	470	70	.39	.35	.29	.19
334749	UT6B3-41-UR33	JVP	1	Blue	Water clear	T1	0.119/3	0.17	0.94	0.10	3.2	900	470	45	.59	.49	.39	.35
334764	LWK2043	JVP	1	White	Water clear	T1	0.119/3	0.17	0.98	0.10	3.5	900	—	30	.99	.89	.75	.65
333489	LUR3300/HO/A	JVP	1	Red	Red diffused	T1 ¾	0.197/5	0.33	1.00	0.10	1.5	380	660	40	.25	.19	.15	.12
210825	BVU-5M1QN1	BVO	2	Orange Red	Red diffused	T1 ¾	0.197/5	0.30	1.00	0.10	2.1	465	615	30	.25	.06	.05	.04
2193900	LTL-307UR-002	LTO	2	Red	Red diffused	T1 ¾	0.197/5	0.29	0.83	0.10	1.8	470	660	50	* .15	.12	.10	.10
351089	MCDL-517URD-F	JVP	1	Super Red	Red diffused blinking	T1 ¾	0.197/5	0.30	1.00	0.10	1.8	500	660	120	.69	.59	.49	.35
152864	BVU501SR4	JVP	1	Red Super Bright	Water clear	T1 ¾	0.197/5	0.34	0.89	0.10	1.9	600	660	20	.25	.05	.04	.03
333497	LSR13233	JVP	1	Red	Water clear	T1 ¾	0.197/5	0.30	0.98	0.10	1.5	720	660	18	* .19	.15	.12	.12
206519	LHR3331	JVP	1	Red	Red transparent	T1 ¾	0.197/5	0.30	0.98	0.10	1.5	900	550	20	* .19	.15	.12	.12
153154	LVG3333	JVP	1	Green	Water clear (HLMP-8509)	T1 ¾	0.197/5	0.30	1.02	0.10	2.1	500	565	20	.25	.10	.08	.06
156962	LT1823-81-HE	JVP	2	Green	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	2.1	500	567	19	.25	.12	.10	.07
333551	LVG13233	JVP	1	Green	Water clear	T1 ¾	0.197/5	0.30	0.98	0.10	1.7	600	565	18	* .19	.15	.12	.12
2234071	LL-50ABD2E-017	JVP	1	Blue	Blue diffused	T1 ¾	0.197/5	0.30	1.00	0.10	3.5	350	470	120	.69	.59	.49	.35
2211080	KTL050BLDI	ADT	2	Blue	Blue diffused	T1 ¾	0.197/5	0.30	1.00	0.10	3.5	350	470	120	.69	.59	.49	.35
134333	383UBC/H2	JVP	1	Blue	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	3.8	630	428	30	.99	.89	.79	.65
2239023	LED-5MMBLUE	JVP	1	Blue	Water clear	T1 ¾	0.197/5	0.30	0.98	0.10	3.5	900	470	30	.79	.69	.65	.55
2179711	MCDL-5013UBD	JVP	1	Blue	Blue diffused	T1 ¾	0.197/5	0.34	1.06	0.10	3.3	995	460	20	.75	.65	.55	.45
2234062	XLCD12D	SLD	1	Blue	Blue diffused	T1 ¾	0.197/5	0.33	1.06	0.10	3.3	995	460	30	.79	.69	.59	.45
2219625	LDUV3333	JVP	1	Purple	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	3.0	450	400	20	1.25	1.15	.99	.85
2236439	XL59M-SKA35W*	SLD	3	Red/Green	White diffused bi-color	T1 ¾	0.197/5	0.30	3.00	0.07	3.3	1195/1495	650/515	60	1.59	1.45	1.29	1.05
2152155	MCDL-833URD-U12	JVP	2	Super Red	Red diffused	10mm	0.394/10	0.43	1.00	0.10	1.8	600	660	60	.59	.55	.45	.35
2209115	MCD-10003UBD	MCD	2	Blue	Diffused	10mm	0.394/10	0.47	1.00	0.10	3.5	600	470	60	.99	.89	.79	.69

\* 3 lead wire

## High-Output LEDs

• Typical DC forward current 20mA



**NEW**  
MARKED IN PINK

\*Web Code: RBJ

\* Order in multiples of 10

Part No.	Product No.	Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
2168421	3MMLED-BLUE	JVP	1	Blue	Blue diffused	T1	0.119/3	0.15	0.69	0.10	3.4	5000	465	120	\$.29	\$.25	\$.19	\$.15
2169846	3MMLED-GREEN	JVP	1	Green	Green diffused	T1	0.119/3	0.15	0.69	0.10	3.4	5000	520	120	* .19	.15	.12	.12
2138855	LWU30243	ADT	2	White	Water clear	T1	0.119/3	0.17	1.00	0.10	3.2	4000	—	25	.99	.89	.79	.69
2174881	3MMLED-WHITE	JVP	1	White	White diffused	T1	0.119/3	0.15	0.69	0.10	3.4	8000	—	120	* .19	.15	.12	.12
2205430	MCD-3014UEC-TL	JVP	2	Red	Water clear	T1	0.119/3	0.17	1.00	0.10	2.1	3000	620	25	.69	.59	.49	.39
2228480	C4SMB-RGF	CRE	2	Red	Red transparent	Oval	0.157/4	0.25	1.11	0.10	2.0	4600	621	90x45	.25	.09	.07	.06
2228498	C4SMB-GGF	CRE	2	Green	Green transparent	Oval	0.157/4	0.25	1.11	0.10	3.0	12000	524	90x45	.25	.09	.07	.06
2228501	C4SMB-BGF	CRE	2	Blue	Blue transparent	Oval	0.157/4	0.25	1.11	0.10	3.2	2130	470	90x45	.25	.19	.17	.15
333447	UT1873-81-UR-P22R	JVP	2	Super Red	Water clear	T1 ¾	0.197/5	0.30	0.89	0.10	1.9	1600	660	25	.25	.19	.17	.15
333526	LUR3833	JVP	1	Red	Water clear	T1 ¾	0.197/5	0.30	1.02	0.10	1.5	2700	660	12	.25	.21	.19	.16
2188449	LHRF3333S/S46-PF-B01	JVP	1	Red	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	2.1	5000	625	30	.39	.35	.29	.22
2203813	MCDL-5013UEC-TL-H	JVP	2	Super Red	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	2.0	7000	630	20	.49	.45	.39	.29
2231515	XL2M2CQK12W	JVP	2	Red	Water clear	T1 ¾	0.197/5	0.33	1.06	0.10	2.2	10000	640	20	.59	.55	.49	.39
333673	LUE3833	JVP	2	Orange	Water clear	T1 ¾	0.197/5	0.30	0.98	0.10	1.7	5000	620	12	.49	.45	.35	.29
333569	LVY3333/A*	JVP	1	Yellow	Water clear	T1 ¾	0.197/5	0.30	0.98	0.10	1.7	2500	590	20	* .15	.12	.10	.10
2006772	LTL-2H3VYKNT1	LTO	1	Amber/Yellow	Water clear, flanged	T1 ¾	0.197/5	0.30	0.87	0.10	2.0	3400	595	15	.25	.08	.06	.04
2186419	LTL-2H3VYKNT	LTO	1	Amber/Yellow	Water clear	T1 ¾	0.197/5	0.30	0.87	0.10	2.0	3400	595	15	* .09	.06	.04	.04
333614	LUY3833H	JVP	1	Yellow	Water clear	T1 ¾	0.197/5	0.30	0.98	0.10	1.7	5000	590	12	.59	.55	.49	.45
2095189	RL50-PY543	JVP	2	Ultra Yellow	Water clear	T1 ¾	0.197/5	0.30	1.02	0.10	1.7	8000	595	20	.39	.29	.19	.15
2167251	MCDL-5013BGC-TL	ADT	2	Green/Blue	Water clear	T1 ¾	0.197/5	0.30	0.96	0.10	3.2	11000	510	30	.99	.89	.79	.65
2077079	HLMP-CM39-UVCD	AGT	2	Green	Untinted/non-diffused	T1 ¾	0.197/5	0.30	0.90	0.10	3.2	5000	535	30	.39	.35	.29	.25
2210706	MCDL-5013BGC-T	JVP	1	Green	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	3.5	7000	505	18	.75	.69	.59	.49
2231507	XL2GK12W	JVP	2	Green	Water clear	T1 ¾	0.197/5	0.33	1.06	0.10	3.3	12000	515	20	.69	.65	.55	.45

\* 10 pcs. in LEDs & LED mounting hardware cabinet kit, pg 26

\* ADT = Arndt | AGT = Agilent | AVT = Avago | BVO = BV Optotech | CRE = CREE | JVP = Jameco ValuePro | LTO = Lite-On | MCD = MCD Electronics | SLD = Sunled Corp.

# High-Output LEDs & Circuit Board Indicators

## High-Output LEDs (Continued)

**NEW**  
MARKED IN PINK

Figure images on previous page

\*Web Code: RBJ

Part No.	Product No.	Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
2231523	XLFB12W	JVP	2	Blue	Water clear	T1 ¾	0.197/5	0.33	1.06	0.10	3.3	6000	465	20	\$1.29	\$1.19	\$ .95	\$ .85
2188668	SSL-LX5093XUSBC	LUM	1	Super Blue	Water clear	T1 ¾	0.197/5	0.34	1.04	0.10	3.5	2500	470	10	.49	.45	.39	.35
2210896	Q62703Q5931	OSR	1	Blue	Water clear	T1 ¾	0.197/5	0.30	1.06	0.10	3.5	2800	470	15	.49	.45	.39	.35
183222	MCDL-5013UBC-TL	JVP	1	Blue	Water clear	T1 ¾	0.197/5	0.30	0.94	0.10	3.5	6000	470	18	1.39	1.25	1.09	.99
334502	LWK3333	JVP	1	White	Water clear	T1 ¾	0.197/5	0.30	0.94	0.10	3.5	5000	—	16	.99	.89	.79	.69
320531	MCDL-5013UWC	JVP	1	White	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	3.8	5000	—	15	1.09	.99	.89	.79
2115493	UT5HW3-40-URC3-4861	JVP	1	White	Water clear	T1 ¾	0.197/5	0.34	0.94	0.10	3.2	7000	480	30	1.19	1.09	.99	.89
2231540	XLFW512W	JVP	2	White	Water clear	T1 ¾	0.197/5	0.33	1.06	0.10	3.3	10000	—	20	1.09	.99	.85	.75
2160067	MVL-514SW-T-S1	UNI	2	White	Water clear	T1 ¾	0.197/5	0.34	1.14	0.10	3.2	11000	—	15	.99	.89	.79	.59
2227903	LTL911VEKSA	LTO	3	Red	Water clear (7.62mm sq.)	3mm dome	0.118/3	0.30	0.30	0.20	2.15	600	632	70	.39	.29	.25	.19
2167411	MVL-904MTGC	UNI	3	Green	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.7	2000	525	50	.49	.39	.29	.25
404582	MCDL-1860UWC-15C	JVP	3	Ultra White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	—	75	1.39	1.25	1.09	.95
2167390	MVL-904MW	UNI	3	White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	4000	—	30	.39	.29	.25	.19
2167402	MVL-904TUYC	UNI	3	Yellow	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.2	4000	625	70	.49	.39	.29	.25
664341	MCDL-1870UWC-15C	JVP	3	White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	6500	—	40	1.39	1.25	1.09	.95
2205296	MCD-10003URC	JVP	2	Red	Water clear	10mm	0.394/10	0.47	1.00	0.10	1.9	1500	660	20	.79	.69	.59	.49
2205317	MCD-10003UYC	JVP	2	Yellow	Water clear	10mm	0.394/10	0.47	1.00	0.10	2.0	1800	589	20	.59	.49	.39	.29
2205309	MCD-10003UEC	JVP	2	Orange	Water clear	10mm	0.394/10	0.47	1.00	0.10	2.0	2000	625	20	.79	.69	.59	.49
2205325	MCD-10003BC	JVP	2	Blue	Water clear	10mm	0.394/10	0.47	1.00	0.10	3.5	3000	470	20	.99	.89	.79	.69
2205341	MCD-10003UWC	JVP	2	White	Water clear	10mm	0.394/10	0.47	1.00	0.10	3.5	9000	—	20	1.09	.99	.89	.79
2205333	MCD-10003PGC	JVP	2	Green	Water clear	10mm	0.394/10	0.47	1.00	0.10	3.5	11000	525	20	.99	.89	.79	.69

Optos

JAMECO ValuePro

## RGB High-Output LEDs

Figure images on previous page, see High Output LEDs

\*Web Code: RKK

Part No.	Cross Ref. No.	Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	500
2211119	MSL-504RGB-4P*	JVP	4	Red/Green/Blue	Water clear	T1 ¾	0.197/5	0.30	1.00	0.05	2.0/3.4/3.4	2000/3000/1200	625/525/470	25	\$1.49	\$1.25	\$1.09	\$ .89
2211127	MSL-504RGB-4P**	JVP	4	Red/Green/Blue	Water clear	T1 ¾	0.197/5	0.30	1.00	0.05	2.0/3.4/3.4	2000/3000/1200	625/525/470	25	1.49	1.25	1.09	.89
2125181	MCDL-518R6G5B6C*	JVP	4	Red/Green/Blue	Water clear	T1 ¾	0.197/5	0.34	1.11	0.028	2.25/3.5/3.5	3500/4000/2000	624/525/470	20	2.25	1.95	1.75	1.49
2128500	MCDL-5013RGBC-TL-A**	JVP	4	Red/Green/Blue	Water clear	T1 ¾	0.197/5	0.30	0.78	0.05	2.0/3.5/3.5	3000/5000/1000	628/525/470	25	2.49	2.25	1.95	1.75
2210829	MCDL-518R6G5B6C-CA**	MCD	4	Red/Green/Blue	Water clear	T1 ¾	0.197/5	0.34	1.11	0.028	2.25/3.5/3.5	3500/4000/2000	624/525/470	20	1.95	1.75	1.59	1.35
2228957	RGB-LED-CC-5-WC*	JVP	4	Red/Green/Blue	Water clear	T1 ¾	0.197/5	0.30	1.00	0.05	2.0/3.2/3.2	5000/9000/6000	625/525/470	20	.39	.35	.29	.25
2157271	MCDL-5013RGBW-B	JVP	1	Red/Green/Blue†	Diffused	T1 ¾	0.197/5	0.30	1.00	0.10	2.3/3.5/3.5	300/300/300	630/525/470	40	1.95	1.75	1.49	1.25
2219559	RGB-LED-CC-5*	JVP	4	Red/Green/Blue	Diffused	T1 ¾	0.197/5	0.30	1.00	0.05	2.0/3.2/3.2	1700/5000/4000	625/525/470	20	1.49	1.25	1.09	.99
2219567	RGB-LED-CA-10**	JVP	4	Red/Green/Blue	Diffused	10mm	0.394/10	0.52	1.00	0.06	2.0/3.2/3.2	700/800/400	625/525/470	20	.59	.49	.39	.29
2219575	RGB-LED-CC-10*	JVP	4	Red/Green/Blue	Diffused	10mm	0.394/10	0.52	1.00	0.06	2.0/3.2/3.2	700/800/400	625/525/470	20	.59	.49	.39	.29
2152163	MCDL-833RGBW-B	JVP	1	Red/Green/Blue†	Diffused	10mm	0.394/10	0.43	1.00	0.10	5.0/5.0/5.0	700/800/400	625/525/470	20	1.95	1.75	1.49	1.25

\*Common Cathode \*\*Common Anode †Auto blink/color change function

Dialight

## Standard-Output LED Circuit Board Indicators (CBI)

2183082

2203311

CLOSEOUT

Part No.	Product No.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
						A"	B"						1	10	100	1000
2183082	551-3107	Yellow/Green*	Diffused, tinted	T1	0.119/3	0.28	0.17	0.10	2.1/2.1	4.3/6.3	585/565	80	\$ .25	\$ .04	\$ .03	\$ .02
2203311	GB310	100 pcs. PCB	Housing LEDs	T1, T1 ¾ multiple LEDs, R/A, straight, various colors	0.119/3	0.28	0.17	0.10	2.1/2.1	4.3/6.3	585/565	80	4.95	4.49	3.95	3.59

\*Bi-color

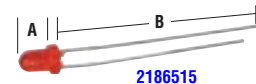
LITEON

## Standard-Output, SMT LEDs and Circuit Board Indicators (CBI)

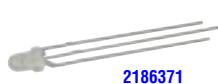
5 Million pieces Lite-On LED Sale!

\*Web Code: SOI

Visit Jameco.com and use web code



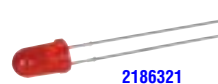
2186515



2186371



2186451



2186321



2033164  
(Super thin)

\* Order in multiples of 10

Part No.	Product No.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
						A"	B"						1	10	100	1000
2186515	LTL-4202	Red	Transparent	T1	0.119/3	0.17	1.00	0.10	1.7	5.6	655	20	\$ .25	\$ .05	\$ .03	\$ .02
2186371	LTL-1BEWJ	Red/Green	Diffused (3 lead)	T1	0.119/3	0.16	0.79	0.10	1.8/2.1	12.6/5.6	660/565	140	.25	.07	.06	.05
2186451	LTL-1BEHKVMP1	Hi Eff. Red/Green	Water Clear (3 lead)	T1	0.119/3	0.16	0.19	0.10	2.0/2.1	19/29	650/565	55	.25	.06	.05	.04
2186321	LTL-4204	Red	Transparent	T1 ¾	0.197/5	0.30	1.00	0.10	1.7	19	655	16	.25	.05	.04	.03
2033164	LTL-5238	White	Water Clear	SMT-0603	0.04/1.1	0.06	0.03	—	3.2	112	—	130	*	.19	.13	.09

\* JVP = Jameco ValuePro | LTO = Lite-On | LUM = Lumex Optoelectronics | OSR = Osram | MCD = MCD Electronics | UNI = Unity Opto Technology

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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19



# Panel Mount Indicators & Lamps

3 LEVELS OF SAVINGS		
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## JKL Wedge Base LED Lamp

\*Web Code: WBL

Wedge LEDs can replace filament bulbs commonly found in automotive and water craft applications. The LEDs feature an integrated diode for reverse voltage protection and a current limiting resistor.

Part No.	Mfr. Part No.	Volt. @ Current	Color	Wavelength	Lumens	1	10	100
2123371	LE-0503-03W	12VDC @ 15mA	White	X=0.3; Y=0.29	2.5	\$1.25	\$1.09	\$ .99

## JAMECO ValuePro Multi-Chip Based LED Lamps

### T1¼ - Midget Flange (Polarized)

392690

Part No.	Product No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
392690	585-1413	Yellow	14	30	23	585	\$.99	\$.89	\$.79
392681	585-1313	Green	14	28	70	565	.99	.89	.79
392702	585-1215	Red	28	16	64	660	.99	.89	.79

## 25-Watt Electronic Rapid Start Ballast

- Normal power factor, open circuit voltage: 600V, D/C
- 120VAC, 50/60Hz, 0.33A

Part No.	Mfr.	Product No.	Description	1	10	100
2100005	Lightwave	LW20EB20-120	For G25T5 CFL lamp .....	\$3.95	\$3.59	\$3.29

## JAMECO ValuePro Incandescent Lamps

\*Web Code: DBH

Part No.	Cross Ref.	Fig.	Description	Volts	MSCP	1	10	100
209390	14	1	G3 ½ miniature screw	2.47	.50	\$.65	\$.59	\$.49
2229861	40	2	T1 ¼ miniature screw	6.3	.50	.49	.45	.39
209437	47	3	T3 ¼ miniature bayonet	6.3	.50	.49	.45	.39
209525	194	7	T3 ¼ wedge base	14	2.0	.49	.45	.39
2272607	259	7	T3 ¼ wedge base	6.3	.65	.35	.29	.19
141073	2182	4	T1 ¼ wire terminal	14	.34	.35	.32	.29
141066	2200	4	T1 ¼ wire terminal	5	.05	.39	.34	.25
210008	7328	5	T1 ¼ bi-pin	6	.60	.65	.49	.39
210032	7382	5	T1 ¼ bi-pin	14	.30	.69	.55	.45
2237562	2720356	8	E10 lamp holder base, screw term.	—	—	1.95	1.75	1.55

## JAMECO ValuePro Neon Lamps

\*Web Code: VAD

Part No.	Cross Ref.	Fig.	Description	Voltage	1	10	100
27351	A1A (NE-2)	6	Wire terminal .5mA, 12mm L	65-120	\$.35	\$.29	\$.25
210260	A9A (NE-2E)	6	Wire terminal .7mA	65-120	.35	.29	.25
210315	C2A (NE-2H)	6	Wire term. 1.9mA, 18mm L	65-120	.35	.29	.25

## Panel Mount Indicators (Incandescent, LED, Neon)

\*Web Code: SOL

These bright indicator lights come equipped with quick and easy connections. Available in many different types for your specific needs.

- .187"/.250" tabs; clamp screw; stripped & tin wires termination
- Red, amber, yellow, green, blue or white
- 22mm (0.88") mounting hole
- Lens and hex nut: polycarbonate
- UL/CUL/TUV/CE approved
- Diffuser: polyacetal
- Hex nut and panel seal mounting hardware
- Housing: PBT w/ 20% glass

Part No.	Mfr. Part No.	Fig.	Voltage (V)	Color	Mounting Hole	Type	Termination	1	10	100
2129457	3335-4-50-183-A-1001	1	14	Red (temperature Indicator)	0.375" x 1.38"	Incandescent	0.250" tabs	\$.39	\$.35	\$.29
2126424	KE12-4-03-01020	2	14	Amber (translucent lens)	0.63"	LED	0.250" tabs	.99	.89	.79
2126408	KE12-4-03-01050	2	14	Blue (translucent lens)	0.63"	LED	0.250" tabs	.99	.89	.79
2236025	361-7672	5	120	Amber	0.453"	Neon	0.120" tabs	1.75	1.49	1.25
2129545	4416-1-20-010-1	3	250	Red	0.250"	LED	9" wires	.25	.15	.10
2126512	2954-X-11-373-10	4	480	Red	0.50"	Neon	15" wires	.49	.39	.35

## JAMECO ValuePro LED Panel Mount Indicators

\*Web Code: SOL

- Easy panel installation
- Panel/status/instrument indicators

141111/141129/141137: Chrome housing

Part No.	Product No.	Fig.	LED Size	Color	Dimensions (in.)			Mounting Hole	Vt @ If	Pricing		
					L	A	B			1	10	100
141111	L922SRD	1	T1	Red	.56	.34	.25	.23"	2V @ 20mA	\$1.09	\$.99	\$.85
141129	L913RDJVP	2	T1	Red	.56	.39	.32	.24"	2V @ 20mA	1.25	1.15	.99
141137	L917RD	2	T1 ¼	Red	.70	.55	.47	.31"	2V @ 20mA	1.25	1.09	.99
637183	UT2U1G-H113-R801-W05†*	3	T1 ¼	Green	.55	5.5	5.5	.24"	12V @ 10mA	1.09	.99	.89
2158936	UT2U1W-H113-R801-1739*	3	T1 ¼	White	.55	5.5	5.5	.24"	12V @ 30mA	1.09	.99	.89
2230563	XPG1LCWD01M12VW6*	3	10mm	White	.83	6.0	6.0	.55"	14V @ 8.6mA	3.95	3.49	2.95
2230571	XPG1LCBD01D12VW6*	3	10mm	Blue	.83	6.0	6.0	.55"	14V @ 8.6mA	3.95	3.49	2.95
2230580	XPG1LMD01D12VW6*	3	10mm	Red	.83	6.0	6.0	.55"	14V @ 8.6mA	3.95	3.49	2.95

† Has internal resistor to run 12V @ 10mA \* Has 5.5" wire leads \$ Additional panel mounting hardware, P/N 2182602 (pg 78)

## JAMECO ValuePro 12V Incandescent Panel Mount Lamps

- 215715: Solder terminals - 0.196" (5mm)

\*Web Code: JBJ

Part No.	Cross Ref. No.	Fig.	Color	Mounting Hole	Wire Length	1	10	100
2181360	NN792-12V-12CM-RED \$	1	Red	9/32" (7mm)	4.7" (120mm)	\$1.49	\$1.25	\$1.09
2181378	NN792-12V-12CM-GRN	1	Green	9/32" (7mm)	4.7" (120mm)	1.49	1.25	1.09
215715	R9-71B-05-12V-R	2	Red	5/8" (16mm)	Terminals	2.25	1.95	1.79

\$ Additional panel mounting hardware, P/N 2182688 (pg 78)

## JAMECO ValuePro Neon Panel Mount Lamps

- Input voltage: 120V
- Mounting hole diameter: 5/8" (16mm)
- Solder terminals: 0.196" (5mm)

1585485:

- Rectangular
- 6" wire leads
- Size: .91"L x .38"W x .77"D

\*Web Code: JBJ

Part No.	Cross Ref. No.	Color	1	10	100
215803	R9-71N-05-120V-R	Red	\$1.95	\$1.75	\$1.49
215812	R9-71N-05-120V-Y	Yellow	1.95	1.75	1.49
215830	R9-71N-05-120V-G	Green	1.95	1.75	1.49
2202651	120VNEON	††	5.49	4.95	4.49
1585485	32501001714	Green	.25	.15	.12

†† 2 red, 1 yellow, 1 green

## Neon Panel Mount Lamp

- Mounting hole: .310"Dia.

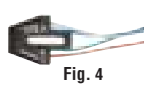
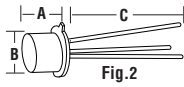
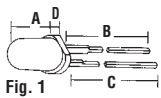
\*Web Code: JBJ

Part No.	Voltage	Lead	1	10	100
2179737	125VAC @ 0.3W	6" .....	\$3.49	\$2.95	\$2.59

# Infrared Emitters, Detectors & Laser Products

## Infrared & Visible Light Emitters & Detectors

- Use for remote control and/or for fiber optics



\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches)				Forward Voltage @ Current	Wavelength nm	mWatts	Pricing		
							A	B	C	D				1	10	100
112150	LIR2043	LIG	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.18	0.95	0.98	0.03	1.2 @ 20mA	940	5	*	\$ .19	\$ .15
1950825	L-34F3CS	JVP	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.20	1.00	1.06	0.04	1.2 @ 20mA	940	80	.39	.35	.29
112176	LPT2023	LIG	1	Infrared phototransistor	T1	0.12/3	0.18	0.95	0.98	0.03	30 @ 0.1A	940	100	.39	.35	.29
12120410	RPT-38PB3F	RHM	1	Phototransistor	T1	0.125/3	0.18	0.95	0.98	0.03	5 @ 30mA	800	150	.49	.39	.29
106526	LVIR3333	LIG	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.34	0.78	0.84	0.04	1.2 @ 20mA	940	8	*	.19	.15
1110914	TSAL6100	VSH	1	High power infrared emitting diode	T1 3/4	0.23/5.8	0.30	0.98	1.04	0.04	1.35 @ 100mA	940	210	.45	.35	.25
373001	UT1893-91-0125	JVP	1	Infrared phototransistor	T1 3/4	0.200/5	0.34	0.88	0.94	0.04	30 @ 0.1A	870	20	.35	.29	.25
2129385	UT1893-45-0125	JVP	1	Infrared phototransistor	T1 3/4	0.200/5	0.34	0.88	0.94	0.04	30 @ 0.1A	860/940	20	.35	.29	.25
1872441	OP999	OPT	1	PIN silicon photodiode	T1 3/4	0.205/5.3	0.31	0.69	0.75	0.04	1.2 @ 1mA	200	100	1.19	1.09	.99
1108144	TEPT5600	VSH	1	Silicon NPN phototransistor	T1 3/4	0.197/5	0.30	0.97	1.03	0.04	6 @ 20mA	570	100	.65	.49	.39
120221	BPW77NA	VSH	2	NPN phototransistor	TO-18	0.18/4.69	0.24	0.19	0.52	0.01	70VCEO @ 50mA	850	250	3.29	2.79	2.25
2227751	OPT301M	+	3	Integrated photodiode	TO-99	0.90/2.2	0.16	0.32	0.55	—	2.25-18 @ 400µA	650	—	49.95	44.95	39.95
1872759	OPB704WZ	OPT	4	Infrared emitting diode/phototransistor	—	0.61/15.5	0.61	24	24	—	1.7 @ 40mA	890	68	4.95	4.49	3.95
874939	QRD1114	FSC	5	Reflective object sensor phototransistor	Rect.	0.24/6.1	0.18	0.17	0.50	—	1.7 @ 20mA	940	100	1.39	1.15	.89
1621132	BPW34	SYL	6	PIN silicon photodiode chip	Square	—	0.075	0.157	0.118	—	1.3 @ 80µA	850	150	.89	.79	.69
2035661	TSOP4840	VSH	5	Infrared remote receiver (40kHz)	Dome	0.24/6	0.27	0.92	0.88	—	5 @ 1.2mA	950	50	.99	.85	.69
2109691	350-00014	PLX	8	Infrared receiver (38kHz)	Dome	0.24/6	0.27	0.92	0.118	—	3.3 @ 0.35mA	940	10	1.95	1.75	1.49
2211047	GP1UD271XK0F	SHP	7	Infrared receiver (38kHz)	Dome	0.15/4	0.29	0.40	0.118	0.14	5 @ 140µA	1000	1	.69	.55	.45
2229351	TSOP4838	VSH	8	Infrared receiver (38kHz)	Dome	0.18/4.7	0.27	0.90	0.90	0.16	4.5-5.5 @ 5mA	950	10	1.09	.89	.69

## Monolithic Multi-Digit Array Display

PCB mounted, magnified, monolithic, 7 or 14 segment red digits, with digit heights of 100, 110 and 140 mil (2.54, 2.79, 3.56mm), and is intended for small, low cost numeric indication.

- Number of digits: 6
- Digit height: .100" (2.54mm)
- Lens/magnification: clear, bubble, 2x
- Viewing angle: 25°C horizontal/32°C vertical
- Luminous intensity: 0.40 mcd @ 5mA
- Package code: NH • PCB length: 2.0" (51.2mm)
- Forward voltage: 1.65V @ 5mA

Part No.	Mfr. Part No.	1	10	50	100
2210976	NSA1166 .....	\$2.49	\$2.25	\$1.95	\$1.59

\* Soldering Irons — Enter Web Code QAS

\* Rocker Switches — Enter Web Code VBU

## 650nm Laser Diodes

2120428:

- Output power: 5mW min.
- Operating voltage & current: 2.6V max @ 70mA
- Wavelength: 650nm (typical)
- Beam divergence: 8° from center

2210204/2217692:

- Output power: < 5mW
- Input power: 150mW
- Operating voltage: 3VDC
- Wavelength: 650nm (typical)
- 2 wire connection: red and blue wires
- Cable length: 3"
- Perfect for DIY projects
- Dimensions: 0.24"Dia. x 0.52"L
- Weight: 0.18 oz. (5 grams)

Part No.	Mfr.	Mfr. Part No.	1	10	100
2120428	Lite-On	LTLD505T ...	\$2.95	\$2.59	\$2.39
2210204	ValuePro	154145 .....	3.49	2.95	2.59
2217692	Seeed	IRL104A2B ....	6.95	6.25	5.59

Class IIIa Laser Product

2120428

2210204

2217692

## 650nm Line and Dot Laser Diode Modules

2246717: Cross hair laser diode module

- Operating voltage: 4-6VDC
- Size: 1.22"L x 0.4"Dia.
- 5mW red • -20°C to +60°C
- Power supply required 3-6V

143845/173243:

- Focus adjustable with locking set screw
- Wattage: 5mW
- Operating voltage: 3-5V
- One-year warranty

143845: Line laser diode module

- Laser line width: 1mm
- Laser fan angle: 60°
- Size: 3.3"L x 0.9"Dia.

173243: Cross hair laser diode module

- Laser fan angle: 60°
- Size: 3.0"L x 0.9"D
- Female 2.1mm power connector

1940660: Module regulated power supply

- Output: 5VDC @ 1A
- Short-circuit protection
- Input voltage: 90-264VAC or 190-250VAC switchable
- Size: 2.6"H x 1.3"W x 1.9"D
- Weight: 0.6 lbs.

Part No.	Description	1	5
2246717	Cross hair laser diode module ...	\$12.95	\$11.95
143845	Line laser diode module .....	144.95	129.95
173243	Cross hair laser diode module ...	149.95	134.95
1940660	Power supply, 5VDC/1A .....	9.39	7.95

\* Laser Products — Enter Web Code LAZ

## alpec 5mW Red Laser Pointers

Class IIIa Laser Product

223731

Part No.	Mfr. P/N	Case Color	nm	Range	Size (L" x Dia.)	1	5	25	100
223731	5608 *	Black	532	>6000'	5.6 x 0.5	\$79.95	\$71.95	\$64.75	\$58.25
2215558	4070†	Silver	650	3000'	.75 x 3.5	3.95	3.59	3.29	2.95
153605	4012	Black	670	1500'	5.2 x 0.4	21.95	19.95	17.95	15.95
2215523	6290	Matte silver✓	650	1500'	1.75 x 3 x 0.6	1.95	1.79	1.59	1.49
2215540	6203	Black✓	650	1500'	3.6 x 0.9 x 0.25	1.95	1.75	1.49	1.25
2215531	6206	Silver✓	650	1500'	3.6 x 0.9 x 0.25	1.25	1.09	.99	.85
2215611	4824-W	White✓	650	1500'	0.8 x 0.5 x 3.5	1.49	1.25	.99	.85
2215620	4825-Y	Yellow✓	650	1500'	0.8 x 0.5 x 3.5	1.75	1.49	1.25	1.09
2228691	GB219	5 assorted red laser pointers above (✓)				6.95	6.25	5.95	5.49

\* Green laser † With "C" cell batteries

\* FSC = Fairchild Semi | JVP = Jameco ValuePro | LIG = Ligitek | OPT = Optek | PLX = Parallax | RHM = Rohm | SHP = Sharp | SYL = Sylvania | VSH = Vishay | + Major Brands

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# High Power LEDs & Modules

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## MCD LIGITEK High Power LEDs with Heat Sink

- Superior high-flux output and high luminance
- Lambertian or 'High Dome' LED has a high hemispherical dome with a wider 140° viewing angle
- Represents Star form factor with heat sink
- High dome series projects a wider and clearer light beam
- ESD protection

NEW  
MARKED IN PINK



2096843



2246792

\*Web Code: HPL

Part No.	Mfr.	Mfr. Part No.	Power (W)	Color	Volt. @ Curr. (Vt @ It)	Luminous Flux (lm)	Viewing Angle	Pricing		
								1	10	50
2096843	MCD	MCDL-L20-350HPCWS	1	White	3.2 @ 0.35A	90	140°	\$5.95	\$5.49	\$4.95
2006908	Ligitek	L-HP3PW	3	White	3.2 @ 1A	120	90°	5.95	5.49	4.95
2246792	ValuePro	2530	3	RGB	2.5 @ 0.35A	110	120°	3.95	3.75	3.55

## JKL 12-24V LED Dimmer

Control the brightness of single channel constant voltage LED devices and fixtures operating at 12-24VDC. Dim from 100% full brightness to 20% brightness without flickering. Good for display cases, architectural and cove lighting applications.

- 8 amps maximum load
- Operating temperature: 0°F – 140°F
- Size 2.0"L x 3.0"W

Part No.	Mfr. Part No.	1	5
2153140	ZDM-01	\$14.95	\$13.95

## High-Output RGB LEDs

\*Web Code: RBJ

Now you can have red, green, and blue (RGB) colors from one single LED that provides high radiant power and intensity.

Complete selection of LEDs on pages 16-21

2125181



- LED size: T1 1/4 (5mm)
- Water clear and diffused lens RGB LEDs

Part No.	Lens	MCD	1	10	100
2125181	Water clear	3500/4000/2000	\$2.25	\$1.95	\$1.75
2128500	Water clear	3000/5000/1000	2.49	2.25	1.95
2219559	Diffused	1700/5000/4000	1.49	1.25	1.09
2157271	Diffused*	300/300/300	1.95	1.75	1.49

\*Auto blink



## 12" Slim Aluminum Light Bar Strip

Equivalent to a standard 40W light bulb!

- Ultra bright LEDs
- Consumes only 5W
- Stylish modern design
- USB mini-B connection
- Operating voltage range: 10-30VDC
- Aluminum bar with glass cover
- Up to 6 bars can be daisy-chained together w/ USB mini B male to female connector
- Life expectancy: over 50,000 hours

Part No	Color	Brightness	1	5
2177571	Cool white	408 lumens	\$29.95	\$27.95

## JKL Festoon LED Lamp and Socket

- Scratch and shock resistant glass encapsulated
- Size: 43mm

\*Web Code: FES



Shown with Socket (sold separately)

Part No.	Mfr. Part No.	Voltage @ Current	Color	Lumens	1	10
2113261	LE-0603-02W	12VDC @ 20mA	White	10.0	\$4.95	\$4.49

### Socket

Part No.	Mfr. Part No.	Description	1	10	50
2113367	2910F-47	Fits 40-44mm lamps, 1.97"L x .66"W x .76"H	\$6.69	\$5.59	\$4.49



## LED Module

Designed for superbright illumination applications.

- 16 LEDs in 4 clusters on heatsink
- 2160 Lumens, white
- 180k mcd
- 55VAC @ 70mA, 120-277VAC thru TMP circuit



Part No.	Description	1	5	25
2179374	4 cluster LED assembly module	\$3.95	\$3.49	\$2.95

\*LED Drivers — Enter Web Code REK

\*LED Light Strips — Enter Web Code FLX



## LED Assortment Kits with 3mm and 5mm LEDs

Part No.	Description	Voltage @ Amperage	Pieces	1	10
2259526	6 color round top diffused (Red, Orange, Yellow, Blue, Green, White)	2-3V @ 8-100mA	300	\$11.95	\$10.95
2238338	5 color clear round top LED (Red, Green, Blue, Rainbow)	2-3V @ 2-103mA	300	9.95	8.95
2238354	RGB & rainbow rnd. & straw hat (slow, fast, CA, CC)	2-3V @ 9-90mA	180	12.95	11.95

2259526



## BlinkM Programmable Smart LED

Choose virtually any color, fade between two colors or make your own blinking sequence. No knowledge of programming or electronics required.



Part No.	Mfr. P/N	Description	1	5
2123645	MiniM	6000 mcd, 120° FOV, 3.6-5V op. volt, 60mA max	\$15.95	\$14.49



## 3 & 4-LED Modules

\*Web Code: HPL

- 12VDC per module @ 45mA
- Color temperature: 8000k
- LED viewing angle: 120 degrees
- 0.72 watts

2224121



Part No.	Mfr. Part No.	Description	1	10
2224139	5050	3-LED SMD waterproof	\$3.95	\$3.59
2224121	4XRGB	4-LED RGB waterproof	4.95	4.49



## White LED Backlight Modules

- Near-uniform light output
- 3V @ 20mA
- 3.5mm thick

2214379

Part No.	Mfr. Part No.	Size (L" x W")	1	5
2214379	1626	1.57 x 0.47	\$2.95	\$2.65
2214352	1622	2.95 x 0.91	3.49	2.95
2214361	1621	3.39 x 1.77	3.95	3.59



## Distributed Array Gen II LED Module

- Operating voltage: 33-39VDC
- 36 LEDs
- Constant current module
- High brightness and contrast
- 10 years lifetime @ below 79°C (board temp)
- 9 watts, 250mA, 36VDC
- Color temperature: 4000°
- Lumens: 1225 (overall brightness)
- Binned and chipping binned LED for good color and consistency



Part No.	Mfr. Part No.	Size (in.)	1	10
2218097	71914-3CK1	11.4 x 1.5	\$7.95	\$6.95

## RGB Controller and LED Strips

- 12V input individually controllable LEDs
- LED strips suitable for indoor and outdoor use



2214344



Part No.	Mfr.	Description	1	5
2214344	Adafruit	1 meter RGB LED strip with 30 LEDs	\$17.95	\$16.95
2212015	Adafruit	1 meter RGB LED strip with 60 LEDs	24.95	22.49
2215224	ValuePro	1 meter RGB LED strip with 60 LEDs	9.95	8.95





## 7 & 16-Segment LED Displays

\* Web Code: PBW

### Soldering:

- Soldering bath: not more than 5 sec. @ 260°C
- Soldering iron: not more than 3 sec. @ 300°C under 30W



Single Digit  
LHDP/RHDP (24782)



Single Digit RHDP  
(7-seg.) (17209)



2-Digit RHDP  
(2230811)



3-Digit RHDP  
(2125229)

## Single Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
24732	MCD	GNS-3011BH-11	0.30"	Red	CA	14	1.9 @ 20	0.3 @ 20	697	LHDP/RHDP	\$ .99	\$ .89	\$ .75
24782	Ligitek	LSD3211-11	0.30"	Red	CC	14	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.99	.89	.75
24740	Ligitek	LSD3221-11	0.30"	Red	CA	14	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.99	.89	.75
2186099	Hewlett Packard	5082-7621	0.30"	Yellow	CA	14	2.2 @ 20	8.3 @ 20	583	RHDP	.69	.59	.49
2188895	Hewlett Packard	HDSP-7301	0.30"	Red	CA	10	1.6 @ 25	11 @ 20	640	RHDP	.49	.39	.29
2005403	Lite-On	LTS-313AG	0.30"	Green	CC	10	2.1 @ 20	2.0 @ 20	565	RHDP	.59	.49	.39
1955714	Lite-On	LTS-367R	0.36"	Red	CC	10	1.7 @ 20	0.5 @ 10	655	RHDP	.49	.39	.29
334800	Lite-On	LTS-4710AP	0.40"	Hi-eff Red	CA	14	2.1 @ 20	0.8 @ 10	697	RHDP	.69	.59	.49
2227938	Lite-On	LTS-4301P	0.40"	Bright Red	CC	10	2.1 @ 20	0.8 @ 20	697	RHDP	.69	.59	.49
2005411	Lite-On	LTS-4980AHR	0.40"	Hi-eff Red	CC	14	2.1 @ 20	2.2 @ 10	635	RHDP	.39	.35	.25
2227920	Lite-On	LTS-4301JS	0.40"	Yellow	CC	10	2.1 @ 20	0.65 @ 20	588	RHDP	.69	.59	.49
2227911	Lite-On	LTS-4301G	0.40"	Green	CC	10	2.1 @ 20	2.2 @ 20	565	RHDP	.79	.69	.59
17209	MCD	GNS-5011BH-11	0.50"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	1.09	.99	.89
17187	ValuePro	LSD5101A	0.50"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	1.09	.99	.89
335090	ValuePro	UA5651-11	0.56"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	1.09	.99	.89
2203565	Lite-On	LTS-5001AWC	0.56"	Red AlGaAs	CA	10	1.8 @ 20	0.7 @ 10	660	RHDP	.59	.49	.39
2203581	Lite-On	LTS-6660E	0.56"	Orange Red	CC	10	2.6 @ 20	2.4 @ 10	630	RHDP	.59	.49	.45
334880	ValuePro	UC5641-11-EWRNR	0.56"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.69	.59	.49
790639	Lite-On	LTS6460G	0.56"	Green	CA	10	2.1 @ 20	2.4 @ 10	569	RHDP	1.09	.99	.89
334862	ValuePro	UC5621-11	0.56"	Green	CC	10	2.1 @ 20	2.9 @ 10	567	RHDP	1.09	.99	.89
2230598	SunLED	XDCBD14A	0.56"	Blue	CA	10	3.0 @ 10	2.3 @ 10	460	LHDP/RHDP	1.75	1.59	1.35
1955829	Lite-On	LTS-3403AP	0.80"	Red Gap	CC	18	2.1 @ 20	0.95 @ 10	697	LHDP/RHDP	.89	.79	.69
18753	Ligitek	LSD8151-10	0.80"	Red	CC	16	2.1 @ 20	1.0 @ 20	697	LHDP/RHDP	.89	.79	.69
2186110	Hewlett Packard	HDSP-4200	0.80"	Yellow	CA	18	2.6 @ 100	3.4 @ 20	586	LHDP	1.09	.99	.89
2227364	Everlight	2326SURWA/S530-A3	2.24"	Brilliant Red	CA	10	2.0 @ 20	34 @ 10	632	RHDP	1.95	1.75	1.49
97199	Ligitek	LSD23265-10	2.24"	Red	CA	10	6.8 @ 20	30 @ 20	660	RHDP	4.49	3.95	3.59
2202061	SunLED	XDMR57C-A	2.24"	Red	CC	10	3.6 @ 10	189 @ 10	660	RHDP	3.95	3.59	3.29
2202079	SunLED	XDMR100C-A	4.00"	Red	CC	10	3.6 @ 10	110 @ 10	660	RHDP	6.95	5.95	4.95

## 2-Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
2227541	Lite-On	LTD-482EC	0.40"	Red Orange	CA	16	2.0 @ 20	1.3 @ 20	630	RHDP	\$ .99	\$ .89	\$ .75
24715	Ligitek	LDD5121-20	0.56"	Red	CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.59	1.39	1.19
24723	Ligitek	LDD5111-11	0.56"	Red	CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.59	1.39	1.19
2230811	SunLED	XDUR14C2	0.56"	Red	CC	18	1.9 @ 10	7.9 @ 10	627	RHDP	2.95	2.59	2.25
2188887	Hewlett Packard	HDSP-5721	0.56"	Yellow	CA	18	2.1 @ 20	1.8 @ 10	583	RHDP	.89	.79	.69
1551568	Hewlett Packard	HDSP-5621	0.56"	Green	CA	18	2.1 @ 10	2.5 @ 10	566	RHDP	1.75	1.49	1.25

## 3-Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
335055	ValuePro	UN4043-13 EWRS	0.40"	Orange	CA	12	2.1 @ 20	3.3 @ 10	635	RHDP	\$ .89	\$ .79	.69
2227954	Lite-On	LTC-4724B	0.40"	Blue	CC	15	3.8 @ 20	3.6 @ 20	428	RHDP	1.95	1.75	1.49
2125229	Arndt	LN5643R-11	0.56"	Orange	CA	12	2.1 @ 20	4.5 @ 10	630	RHDP	1.25	1.09	.95
308224	ValuePro	LM5643R-11RRRN	0.56"	Orange	CC	12	2.1 @ 20	7.4 @ 20	630	RHDP	1.75	1.49	1.25
790410	Lite-On	LTM-8522HR	0.56"	Hi-eff Red	††	18	12.0 @ 8.5	2.4 @ 0.4	635	RHDP	3.95	3.49	2.95
225963	ValuePro	KW3-562A2B	0.56"	Green	CA	28	2.2 @ 20	15 @ 20	568	RHDP	1.95	1.75	1.49

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point †† Built-in M5450 MOS IC chip (serial data input)

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box



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# LED, Bar Graph Arrays, Dot Matrix & OLED Displays

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## LITEON SunLED 7 & 16-Segment LED Displays (Continued)

JAMECO ValuePro

4-Digit RHDP (7-seg.)  
(2227989)



2-Digit RHDP (16-seg.)  
(2227891)



\*Web Code: PBW

### 4-Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
2227989	Lite-On	LTC-2623WC	0.28"	Red	CA	16	1.7 @ 5	3.1 @ 5	660	RHDP	\$2.49	\$2.25	\$1.95
2227971	Lite-On	LTC-2623JD	0.28"	Hi-eff. Red	CA	16	2.1 @ 20	0.6 @ 20	656	RHDP	1.95	1.75	1.49
2203557	Lite-On	LTG-0520KR	0.36"	Red	CC	16	2.0 @ 20	4.9 @ 10	639	RHDP	1.49	1.35	1.09
2228105	Para	A-394E	0.40"	Hi-eff. Red	CA	16 (.70"L)	2.8 @ 20	1.8 @ 10	635	RHDP	1.49	1.25	.99
2230125	Everlight	ELF-416SYGWA/S530-E3	0.40"	Yellow/Green	CA	16 (.70"L)	2.0 @ 20	8.9 @ 10	575	RHDP	1.75	1.59	1.35
2045683	Lite-On	LTC-4627WC	0.40"	Red	CA	16	1.7 @ 5	3.4 @ 5	660	RHDP	2.49	2.25	1.95
2227946	Lite-On	LTC-4627JS	0.40"	Yellow	CA	16	2.1 @ 20	0.65 @ 20	588	RHDP	1.95	1.75	1.49
2218062	ValuePro	MSD-0566GWY	0.56"	Green	CA	12	2.1 @ 20	2.2 @ 10	568	RHDP	2.49	2.25	1.95
335194	ValuePro	UM5624-11-EWRS	0.56"	Green	CC	12	2.1 @ 20	2.9 @ 10	567	RHDP	2.95	2.49	2.19

### 2-Digit 16-Segment Alphanumeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
790452	Lite-On	LTP-3862JD	0.30"	Hyper Red	CA	20	2.1 @ 20	0.9 @ 10	650	RHDP	\$1.49	\$1.25	\$ .99
2227891	Lite-On	LTP-3786E	0.54"	Red Orange	CA	18	2.0 @ 20	2.3 @ 10	630	RHDP	1.95	1.75	1.49
2265607	SunLED	XDVG14C2	0.56"	Green	CC	18	2.0 @ 30	1.19 @ 10	574	RHDP	2.95	2.59	2.25
2265615	SunLED	XDMDK14A2	0.56"	Red	CA	18	1.85 @ 30	2.39 @ 10	645	RHDP	2.95	2.59	2.25
2265623	SunLED	XDMDK14C2	0.56"	Red	CC	18	1.85 @ 30	2.39 @ 10	645	RHDP	2.95	2.59	2.25
2265631	SunLED	XDMYK14C2	0.56"	Yellow	CC	18	1.95 @ 10	3.99 @ 10	590	RHDP	2.95	2.59	2.25

\* CA-Common Anode/CC-Common Cathode # RHDP-Right Hand Decimal Point

seeed studio

SunLED

JAMECO ValuePro

## LITEON LED Bar Graph Arrays (10 Elements)

2227356



697477



2230619



\*Web Code: LBW

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Number of Elements	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing		
										1	10	100
2227356	Lite-On	LTA-10102KR	0.20"	Super Red	10	20	2.6 @ 25	0.67 @ 25	639	\$ .69	\$ .59	\$ .49
697477	Lite-On	LTA-1000HR	0.20"	Hi-eff. Red	10	20	2.0 @ 20	2.0 @ 10	635	1.39	1.25	1.09
334529	ValuePro	UL10000-HR-RRAK	0.20"	Red	10	20	3.9 @ 20	1.6 @ 10	635	1.39	1.25	1.09
697469	Lite-On	LTA-1000G	0.20"	Green	10	20	2.1 @ 20	2.0 @ 10	565	1.25	1.09	.99
2217596	Seeed Studio	LED207A6B	0.20"	Red, Yellow, Green	10	20	5.0 @ 20	20/25/20 @ 20	635/585/565	1.49	1.35	1.19
2230619	SunLED	XGCBDX10D	0.20"	Blue	10	20	3.0 @ 10	9.4 @ 10	460	2.49	2.25	1.95

JAMECO ValuePro

## LITEON LED Dot Matrix Displays (5 x 7, 5 x 8 & 8 x 8 Arrays)

5 x 7 Dot Matrix



5 x 8 Dot Matrix



8 x 8 Dot Matrix



\*Web Code: HAV

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Array Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing		
										1	10	100
2005497	Lite-On	LTP-757G	0.7"	Green	5 x 7 CC/AR	12	2.1 @ 20	2.0 @ 80	565	1.95	1.75	1.49
2005518	Lite-On	LTP-1557AKA	1.2"	AllnGaP Red Orange	5 x 7 CC/AR	14	2.05 @ 20	3.8 @ 80	621	1.49	1.25	1.09
2186048	Lite-On	LTP-2558AA-RA	2.3"	Red Orange/Green	5 x 8 CC/AR	28	2.6 @ 20	4.8 @ 80	565/630	1.49	1.35	1.19
2132349	ValuePro	LD788BS-SS22	0.8"	Hi-efficiency Red	8 x 8 CC/AR	16	2.0 @ 10	25.9 @ 10	632	3.95	3.59	2.95

\* AR-Anode Row / CC-Cathode Column

### LED Dot Matrix with Decoder Driver (4 x 7 Hexadecimal Array)



\*Web Code: HAV

Part No.	Manufacturer	Mfr. Part No.	Character Height	Illuminated Color	Supply Voltage (V)	No. of Characters	Array Polarity	Pins/Leads	Typical mcd	Wavelength nm	Pricing		
											1	10	100
32951	Major Brand	TIL311	0.27"	Red	5	1	4 x 7 Hex	11	0.1	660	\$24.95	\$22.49	\$19.95

adafruit

## Organic LED (OLED) Serial Display

\*Web Code: OSD

High brightness, high contrast, brilliant display. This display operates in wide temperature ranges, consumes low power and has EEPROM storage.



Part No.	Mfr. Part No.	Characters x Lines	Input Data	Input Voltage (VDC @ mA)	Letters/Backlight	Module Size (in.)	Display Size (in.)	1	5	25
2211952	326	128 x 64	15ns	V <sub>DD</sub> =2.8V @ 180µA - logic; V <sub>CC</sub> =9V @ 12.3mA - OEL	White	1.1 x 0.76 x 0.06	0.86 x 0.43	\$19.95	\$18.95	\$16.95



## Serial/Parallel LCD Displays

- Supply voltage: +5V
- Arduino-compatible

\* Web Code: DFD

2160374



2160358



Part No.	Mfr. Part No.	Characters/Resolution	Communication	Color Backlight-Lettering	Controller	Size (L" x W")	Pricing	
							1	5
2160374	FIT0127	16 characters x 2 rows	Parallel	Blue-White	KS 0066	3.1" x 1.4"	\$10.95	\$9.95
2160358	DFR0063	16 characters x 2 rows	I <sup>2</sup> C/TWI	Blue-White	HD44780U	3.2" x 1.4"	21.95	19.95



## Serial LCD Displays

\* Web Code: QAW



2135638



2118539



2118686

- For detailed specification sheets, please visit [www.Jameco.com](http://www.Jameco.com).
- One-year warranty

Part No.	Manufacturer	Mfr. Part No.	Characters x Lines	Baud Rate	Input Voltage (V @ mA)	Letters - Backlight	Notes†	Module Size (W" x H" x D")	Display Size (W" x H")	Pricing	
										1	5
2135638	Arndt	LK162-12-WB-C166	16 x 2	1200-19200	5.0 @ 9	White-Blue	1,2,3	3.2 x 1.5 x 0.8	2.5 x 0.7	\$16.95	\$15.95
2118539	Newhaven	C0220BIZ-FS(RGB)-FBW-3VM	20 x 2	9600 (default)	2.7-3.5 @ 1	Black-Red/Green/Blue	—	3.0 x 1.1 x 0.3	2.4 x 0.6	11.95	10.95
2118686	Newhaven	NHD-0420D3Z-FL-GBW	20 x 4	9600 (default)	5.0 @ 245	Blue-Yellow/Green	1,4	3.9 x 2.4 x 0.5	3.0 x 1.0	20.95	19.95

† 1. For a power supply, Jameco recommends P/N 1953612, pg 94  
2. Connect 16 modules using the same two wire interface

3. Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping and auto scroll feature

4. 122 x 32 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting & keypad interface



## Parallel LCD Displays



\* Web Code: GCG



2138791



2158207



2167293



2118619



210761



2265767



2118635



2265743



2265743



2179331



2265815

Part No.	Mfr.	Mfr. Part No.	Characters x Lines	Character Font	Input Data	Input Voltage (V @ mA)	Letters-Backlight	Notes†	Module Size (W" x H" x D")	Display Size (W" x H")	Pricing		
											1	5	25
2265751	Samsung	UC16130	16 x 1	5 x 8	4-bit or 8-bit	5.0 @ 2.0	Black-Yellow Green	—	3.1 x 1.4 x 0.3	2.9 x 1.1	\$3.49	\$3.25	\$2.95
2138791	P-Tec	PC1601J-YLFYDLX	16 x 1	5 x 8	8-bit	5.0 @ 2.0	Black-Yellow/Green	—	4.8 x 1.7 x 0.3	3.9 x 0.9	.99	.75	.59
2265919	Samsung	UC16116	16 x 1	5 x 8	8-bit	5.0 @ 2.0	Black-None	—	3.1 x 1.4 x 0.2	2.8 x 1.0	2.49	2.25	2.09
2265927	Vikay	2316STLDYGTN	16 x 1	5 x 8	8-bit	5.0 @ 2.3	Black-Yellow-Green	—	2.3 x 1.2 x 0.3	2.0 x 0.8	1.49	1.39	1.25
2167293	Hantronix	HDM16216H-B-S90S	16 x 2	5 x 7	8-bit	5.0 @ 2.2	Gray-STN-None	5	3.3 x 1.7 x 0.4	2.4 x 0.6	3.95	3.49	2.95
2211071	Microtips	MTC-S16204XFYHSAY-08	16 x 2	5 x 7	4-bit	5.5 @ 3.0	Black-Yellow/Green	—	3.3 x 1.7 x 0.5	2.5 x 0.7	6.95	5.95	4.95
2265935	Arndt	DENS-16-2	16 x 2	5 x 7	4-bit	5.0 @ 2.0	Black-None	—	3.3 x 1.4 x 0.3	2.9 x 1.1	1.49	1.39	1.25
2265943	Solomon	LM1181	16 x 2	5 x 7	4-bit or 8-bit	5.0 @ 2.0	Black-Green	—	3.3 x 1.7 x 0.3	2.7 x 1.2	3.49	3.25	2.95
2265951	Samsung	UC16231	16 x 2	5 x 7	4-bit or 8-bit	5.0 @ 2.0	Black-None	—	3.3 x 1.4 x 0.3	2.9 x 1.1	4.49	3.95	3.75
2173159	Vikay	2035STLDYGTN	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.0	Blue-Yellow/Green	—	3.1 x 1.4 x 0.5	2.4 x 0.6	2.95	2.49	1.95
2118619	Newhaven	NHD-021682-FL-YBW	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	Blue-Yellow/Green	2, 3	3.3 x 1.7 x 0.5	2.5 x 0.6	9.95	8.95	7.95
2118580	Newhaven	NHD-02161Z-FL-YBW	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	Blue-Yellow/Green	3, 4	3.2 x 1.4 x 0.5	2.5 x 0.6	9.95	8.95	7.95
2118598	Newhaven	NHD-0216K1Z-NSW-BBW-L	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	White-Blue	2, 3	3.2 x 1.4 x 0.5	2.5 x 0.6	9.95	8.95	7.95
2231030	Lumex	LCM-S01602DTR/M	16 x 2	5 x 8	4-bit or 8-bit	5.0 @ 3.0	Gray-None	—	2.6 x 1.0 x 0.3	2.0 x 0.6	8.95	7.95	6.95
210761	ValuePro	UC-16401 (Samsung)	16 x 4	5 x 8	4-bit or 8-bit	6.5 @ 2.2	Black-None	1, 5	3.4 x 2.4 x 0.3	2.4 x 1.0	8.95	7.95	6.95
2265767	Samsung	UC20102	20 x 1	5 x 8	8-bit	5.0 @ 2.0	Black-None	—	7.1 x 1.3 x 0.2	6.3 x 1.3	3.49	3.25	2.95
2265759	Hitachi	LM628L	20 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	Black-None	—	4.5 x 1.4 x 0.3	3.7 x 1.4	2.49	2.25	2.09
2118635	Newhaven	NHD-0220DZ-FL-YBW	20 x 2	5 x 8	4-bit or 8-bit	5.0 @ 1.5	Blue-Yellow/Green	2, 3	4.6 x 1.5 x 0.4	3.3 x 0.7	14.49	13.49	11.95
2265775	Samsung	SAM-20-2-EL	20 x 2	5 x 8	8-bit	5.0 @ 1.5	EL-Backlight	—	4.5 x 1.4 x 0.3	3.6 x 1.2	3.49	3.25	2.95
2155372	Arndt	HC20216NYU-LYVO	20 x 2	5 x 8	8-bit	5.0 @ 2.0	Black-Yellow/Green	6	5.7 x 1.7 x 0.6	4.8 x 0.9	3.95	3.49	2.95
2158207	Tianma	TM204JAA7	20 x 4	5 x 8	8-bit	5.0 @ 1.4	Blue-Black/White	—	3.0 x 1.8 x 0.4	2.3 x 0.8	6.95	6.25	5.95
2265743	Samsung	UC2410	24 x 1	5 x 8	8-bit	5.0 @ 2.0	Black-None	—	4.9 x 1.4 x 0.3	4.3 x 1.0	1.49	1.39	1.25
2265783	Epson	EPS-24-2-RIB-CBL	24 x 2	5 x 8	8-bit	5.0 @ 1.5	Black-None	—	4.2 x 1.3 x 0.2	4.1 x 1.0	1.95	1.75	1.59
2179340	Vikay	2240STGYBN	40 x 2	5 x 8	4-bit or 8-bit	5.0 @ 2.5	Grey-None	—	7.1 x 1.3 x 0.5	6.4 x 1.1	5.95	5.39	4.79
2265791	Samsung	UC40202	40 x 2	5 x 8	8-bit	5.0 @ 2.0	Green-EL Backlight	—	7.1 x 1.3 x 0.2	6.3 x 1.3	3.49	3.25	2.95
2179331	Vikay	2440STLDYGTN	40 x 4	5 x 8	4-bit or 8-bit	5.0 @ 2.5	Black-Yellow/Green	—	7.5 x 2.1 x 0.5	6.6 x 1.6	6.95	6.25	5.59
2265799	Samsung	UC40401	40 x 4	5 x 8	4-bit or 8-bit	5.0 @ 2.5	Black-None	—	7.3 x 2.1 x 0.3	6.5 x 1.6	4.95	4.59	3.95
2265807	Samsung	UC40404	40 x 4	5 x 8	4-bit or 8-bit	5.0 @ 2.5	Green-EL Backlight	—	7.4 x 2.1 x 0.3	6.6 x 1.6	6.49	5.95	5.59
2265815	Optrex	DMF5005N	240 x 64	240 x 64	8-bit	5.0 @ 7.0	Black-None	—	7.0 x 2.5 x 0.3	6.4 x 2.4	39.95	36.95	33.49

† 1. Recommended power supply P/N 1953612, pg 94  
4. Controller SPLC780D-01 or equivalent

2. Recommended power supply P/N 252701, pg 93  
5. Control LSI HD44780 & column driver MSM5259 or equivalents

3. Controller SPLC780D or equivalent  
6. Controller SGA006

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# Component Cabinet Kits

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## JAMECO ValuePro Cabinet Kits Of The Most Popular Components

- Includes drawer component cabinet (319600) and 20 plastic dividers (319611)
- Designed for your specific expansion
- Identification drawer labels, with reorder numbers & blank labels for empty drawers
- Free standing or wall mountable cabinet • Weight of kits: 4.6 to 6.4 lbs.
- Cabinet size: 6.0"L x 15.0"W x 7.9"H • Drawer size: 5.5"L x 2.7"W x 1.5"H
- 20 clear plastic drawers (319601) and 20 dividers (319611)
- Cabinet: ABS-black (P/N 319600 see pg 129)



81841 (Capacitor Kit)

### 7400 Series IC Kit

Includes 350 pcs. (30 Types) 7400 (TTL) Integrated Circuits

20 each	10 each	10 each	10 each	10 each	10 each
7400	7402	7416	7432	74121	74157
7404	7405	7417	7437	74123	7464
7438	7406	7420	7445	74125	74174
74107	7410	7427	7474	74151	74165
74175	7414	7430	7495	74153	74367

Part No.	Description	1	5
84953	350 pcs. 7400 series IC kit .....	\$299.95	\$269.95
2272151	Refill for 84953 (350 pcs.) .....	284.95	255.95

### 74LS00 Series IC Kit

Includes 420 pcs. (35 Types) 74LS00 (TTL) Integrated Circuits

20 each	10 each	10 each	10 each	10 each	10 each
74LS00	74LS05	74LS73	74LS138	74LS175	
74LS02	74LS10	74LS75	74LS139	74LS240	
74LS04	74LS11	74LS85	74LS151	74LS244	
74LS08	74LS14	74LS86	74LS155	74LS245	
74LS32	74LS20	74LS90	74LS157	74LS273	
74LS74	74LS30	74LS123	74LS173	74LS373	
74LS257	74LS47	74LS125	74LS174	74LS374	

84961	420 pcs. 74LS series IC kit .....	\$229.95	\$209.95
130391	Refill for 84961 (420 pcs.) .....	214.95	199.95

### CD4000 Series (CMOS) IC Kit

Includes 300 pcs. (25 Types) CD 4000 Series Integrated Circuits

20 each	10 each	10 each	10 each	10 each	10 each
CD4001	CD4015	CD4024	CD4051	CD4093	
CD4011	CD4016	CD4027	CD4069	CD4511	
CD4013	CD4017	CD4040	CD4070	CD4538	
CD4049	CD4020	CD4046	CD4071	CD4543	
CD4066	CD4023	CD4050	CD4081	CD4584	

84970	300 pcs. CD 4000 series IC kit .....	\$89.95	\$79.95
130403	Refill for 84970 (300 pcs.) .....	74.95	67.95

### Linear IC Kit

Includes 480 pcs. (40 Types)

20 each	10 each	10 each	10 each	10 each	10 each
LM317T	TL072CP	LM337T	LF412CN	ULN2803A	
LM324N	TL074CN	LF353N	LMC555CN	NE5532N	
LM339N	TL082CP	LF356N	LM556N	7808T	
LM741CN	TL084CN	LM358N	LM723CN	78L12CZ	
LM555CN	MAX232CPE	LM386N-1	LM1458N	7815T	
7805T	LM301N	LM386N-3	DS1488N	7905T	
78L05CZ	LM308N	LM393N	DS1489N	7912CT	
7812T	LM311N	LF411CN	ULN2003AN	7915CT	

84988	480 pcs. (40 types) Linear IC kit .....	\$199.95	\$179.95
130411	Refill for 84988 (480 pcs.) .....	184.95	169.95

### Transistor Kit

Includes 560 pcs. (20 Types)

100 each	10 each	10 each	10 each	10 each	10 each
2N3904	2N2222A	2N4401	MJE3055T	TIP31A	
2N3906	2N2907A	2N4403	BSC547C	TIP32A	
PN2222	2N3053	2N5401	MPSA06	TIP102	
PN2907	2N3055	2N7000	MPSA13	TIP120	

82595	560 pcs. Transistor kit .....	\$69.95	\$59.95
130374	Refill for 82595 (560 pcs.) .....	54.95	49.95

### Diode and Rectifier Kit

Includes 420 pcs. (15 Types) Zener Switching & Silicon Rectifiers

100 each	10 each	10 each	10 each	10 each	10 each
1N914	1N270	1N4007	1N4735A	1N5408	
1N4004	1N751A	1N4150	1N4742A	C106B1	
1N4148	1N4001	1N4733A	1N5404	KBP02M	

82587	420 pcs. Diode kit .....	\$44.95	\$39.95
130366	Refill for 82587 (420 pcs.) .....	29.95	26.95

### 1/8-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/8-Watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	50 each	50 each
10 $\Omega$	390 $\Omega$	2.2k $\Omega$	6.8k $\Omega$	47k $\Omega$	100 $\Omega$	4.7k $\Omega$
47 $\Omega$	470 $\Omega$	2.7k $\Omega$	15k $\Omega$	470k $\Omega$	220 $\Omega$	10k $\Omega$
150 $\Omega$	680 $\Omega$	3.3k $\Omega$	22k $\Omega$	1M $\Omega$	1k $\Omega$	100k $\Omega$
270 $\Omega$	1.5k $\Omega$	5.1k $\Omega$	27k $\Omega$	10M $\Omega$	—	—
330 $\Omega$	2k $\Omega$	5.6k $\Omega$	33k $\Omega$	—	—	—

Part No.	Description	1	5
108329	540 pcs. 1/8-watt Resistor kit .....	\$29.95	\$26.95
108303	Refill for 108329 (540 pcs.) .....	14.95	13.49

### 1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/4-Watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	50 each	50 each
10 $\Omega$	390 $\Omega$	2k $\Omega$	5.6k $\Omega$	47k $\Omega$	100 $\Omega$	4.7k $\Omega$
47 $\Omega$	470 $\Omega$	2.2k $\Omega$	15k $\Omega$	470k $\Omega$	220 $\Omega$	10k $\Omega$
150 $\Omega$	680 $\Omega$	2.7k $\Omega$	20k $\Omega$	1M $\Omega$	1k $\Omega$	100k $\Omega$
270 $\Omega$	1.2k $\Omega$	3.3k $\Omega$	22k $\Omega$	10M $\Omega$	—	—
330 $\Omega$	1.5k $\Omega$	5.1k $\Omega$	33k $\Omega$	—	—	—

81832	540 pcs. 1/4-watt Resistor kit .....	\$29.95	\$26.95
103166	Refill for 81832 (540 pcs.) .....	14.95	13.49

### 1/2-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/2-Watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	50 each	50 each
10 $\Omega$	390 $\Omega$	2.2k $\Omega$	6.8k $\Omega$	47k $\Omega$	100 $\Omega$	4.7k $\Omega$
47 $\Omega$	470 $\Omega$	2.7k $\Omega$	15k $\Omega$	470k $\Omega$	220 $\Omega$	10k $\Omega$
150 $\Omega$	680 $\Omega$	3.3k $\Omega$	22k $\Omega$	1M $\Omega$	1k $\Omega$	100k $\Omega$
270 $\Omega$	1.5k $\Omega$	5.1k $\Omega$	27k $\Omega$	10M $\Omega$	—	—
330 $\Omega$	2k $\Omega$	5.6k $\Omega$	33k $\Omega$	—	—	—

107879	540 pcs. 1/2-watt Resistor kit .....	\$39.95	\$34.95
107853	Refill for 107879 (540 pcs.) .....	24.95	22.49

### 1/2W 1-Turn 1/4" Round Cermet Pot Kit

Includes 100 pcs. of 1/4" round pots listed below

5 each	5 each	5 each	5 each	10 each	10 each	10 each
100 $\Omega$	200 $\Omega$	250 $\Omega$	500 $\Omega$	5k $\Omega$	10k $\Omega$	20k $\Omega$
1k $\Omega$	2k $\Omega$	25k $\Omega$	50k $\Omega$	50k $\Omega$	100k $\Omega$	200k $\Omega$

2234880	100 pcs. single-turn Pot kit .....	\$49.95	\$44.95
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### 1/2W 1-Turn Square Cermet Pot Kit

Includes 200 pcs. (160 pcs) below, (40 pcs) misc 1/4, 1/2, 3/4W

20 each	10 each	10 each	10 each	10 each	10 each	10 each
500 $\Omega$	50 $\Omega$	2k $\Omega$	10k $\Omega$	25k $\Omega$	100k $\Omega$	1M $\Omega$
1k $\Omega$	100 $\Omega$	5k $\Omega$	20k $\Omega$	50k $\Omega$	500k $\Omega$	2M $\Omega$

85032	200 pcs. single-turn Pot kit .....	\$49.95	\$44.95
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### 3/4W 15-Turn Rectangular Cermet Pot Kit

Includes 200 pcs. (160 pcs) below, (40 pcs) misc 1/4, 1/2, 3/4W

20 each	10 each	10 each	10 each	10 each	10 each	10 each
500 $\Omega$	100 $\Omega$	2k $\Omega$	10k $\Omega$	50 $\Omega$	250k $\Omega$	1M $\Omega$
200k $\Omega$	1k $\Omega$	5k $\Omega$	20k $\Omega$	50k $\Omega$	500k $\Omega$	2M $\Omega$

85041	200 pcs. 15-turn Pot kit .....	\$59.95	\$53.95
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### LEDs & Mounting Hardware Kit

Includes 600 pcs. (24 Types) LEDs and Mounting Hardware

100 each	10 each	10 each	10 each	10 each	10 each	10 each
23077	152864	2186435	2095189	333497	98968	
95513	14277	2186558	2133413	2006705	2186419	
697590	2169846	2155268	2168421	2133552	2183058	
2006730	1995960	2230547	2121666	2193897	2194152	

84996	600 pcs. LED & Hardware kit .....	\$59.95	\$53.95
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### Switch Kit

Includes 180 pcs. (18 Types) Pushbutton, DIP & Toggle Switches

10 each	10 each	10 each	10 each	10 each	10 each
139012	2082257	2230328	72161	2228906	2182442
2258486	2181642	2182194	21952	153252	1945241
21910	75951	2235735	26623	2181124	2178566

Part No.	Description	1	5
85059	180 pcs. Switch kit .....	\$79.95	\$71.95

### Spacers & Electronic Hardware Kit

Includes 2600 pcs. (28 Types) Spacer, Hex Nuts

Flat, Tooth & Lock Washers and Phillips PH Machine Screws

50 each	100 each	100 each	100 each	100 each	100 each
Spacers	Hex Nuts	Flat	Internal Tooth	Split Lock	PH Machine
2-56	2-56	#2	#2	#2	2-56 x 1/4, 1/2
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 1/4, 1/2

108433	2600 pcs. Electronic Hardware kit .....	\$79.95	\$71.95
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### Monolithic Ceramic Capacitor Kit

Includes 280 pcs. (10 Types) 50V  $\pm 20\%$  Monolithic Ceramic Caps.

100 each	10 each	10 each	10 each	10 each
.01 $\mu$ F	22pF	.001 $\mu$ F	.22 $\mu$ F	.47 $\mu$ F
.1 $\mu$ F	100pF	.047 $\mu$ F	.33 $\mu$ F	1 $\mu$ F

171475	280 pcs. Monolithic Cap. kit .....	\$34.95	\$31.95
171483	Refill for 171475 (280 pcs.) .....	19.95	17.95

### Radial Electrolytic Capacitor Kit

Includes 240 pcs. (15 Values) Radial Electrolytic Capacitors

20 each	20 each	20 each	10 each	10 each
1 $\mu$ F @ 50V	3.3 $\mu$ F @ 50V	22 $\mu$ F @ 16V	100 $\mu$ F @ 50V	1000 $\mu$ F @ 16V
1 $\mu$ F @ 100V	4.7 $\mu$ F @ 50V	47 $\mu$ F @ 50V	220 $\mu$ F @ 25V	2200 $\mu$ F @ 35V
2.2 $\mu$ F @ 50V	10 $\mu$ F @ 50V	100 $\mu$ F @ 25V	470 $\mu$ F @ 25V	3300 $\mu$ F @ 25V

81867	240 pcs. Radial Capacitor kit .....	\$44.95	\$39.95
130331	Refill for 81867 (240 pcs.) .....	29.95	24.95

### Axial Capacitor Kit

Includes 140 pcs. (10 Values)  $\pm 20\%$  Axial Electrolytic Capacitors

20 each	20 each	10 each	10 each	10 each
1 $\mu$ F @ 50V	4.7 $\mu$ F @ 50V	47 $\mu$ F @ 50V	220 $\mu$ F @ 50V	1000 $\mu$ F @ 25V
2.2 $\mu$ F @ 50V	10 $\mu$ F @ 50V	100 $\mu$ F @ 50V	470 $\mu$ F @ 50V	2200 $\mu$ F @ 16V

81875	140 pcs. Axial Capacitor kit .....	\$44.95	\$39.95
130340	Refill for 81875 (140 pcs.) .....	29.95	26.95

### Ceramic Disc Capacitor Kit

Includes 520 pcs. (10 Values) 50V Ceramic Disc Capacitors

100 each	100 each	20 each	20 each	20 each
.01 $\mu$ F	.047 $\mu$ F	10pF	47pF	470pF
.022 $\mu$ F	.1 $\mu$ F	22pF	100pF	.001 $\mu$ F

81859	520 pcs. Ceramic Capacitor kit .....	\$39.95	\$34.95
130232	Refill for 81859 (520 pcs.) .....	24.95	22.49

### Mylar Capacitor Kit

Includes 280 pcs. (10 Values) 100V  $\pm 10\%$  Mylar Capacitors

100 each	10 each	10 each	10 each	10 each
.01 $\mu$ F	.001 $\mu$ F	.022 $\mu$ F	.047 $\mu$ F	.47 $\mu$ F
.1 $\mu$ F	.0068 $\mu$ F	.033 $\mu$ F	.22 $\mu$ F	1 $\mu$ F

81883	280 pcs.
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135271 - LEDs



18201 - LED Displays



18235 - Switches



18294 - Toy Motors



2226943 - LEDs



2133739 - Connectors



319600 - Cabinet

JAMECO ValuePro

• Opened grab bags are not returnable

• Use our 20-drawer cabinet w/ labels to store your components, P/N 319600

\* Web Code: GBS

Shaded in brown on this page you will find Jameco's nine (9) most popular component Grab Bags. They are all individually bagged and are combined to make up the Schwab's School Selection (P/N 163213).

## Capacitors and Inductors/Chokes

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17857	GB100	200 assorted ceramic disc capacitors	0.2	\$6.95	\$5.95
135335	GB100LB	900 assorted ceramic disc capacitors	1.0	19.95	17.95
17881	GB101	100 assorted mylar capacitors	0.3	7.95	6.95
135458	GB101LB	400 assorted mylar capacitors	1.0	19.95	17.95
17911	GB102	100 assorted electrolytic capacitors radial, axial, snap, 85°C, 105°C, ±20%	0.5	9.95	8.95
135394	GB102LB	300 assorted electrolytic capacitors	1.0	19.95	17.95
17945	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1	9.95	8.95
2081342	GB200	100 assorted axial chokes & inductors	2.0	14.95	13.49

## Resistor and Resistor Network Assortments

134130	GB115	200 asst. 1/8, 1/4, 1/2 resistors (1,5&10%)	0.8	6.95	5.95
18104	GB116	200 assorted 1/4W resistors (1,5&10%)	0.1	6.95	5.95
18139	GB117	200 assorted 1/2W resistors (5&10%)	0.2	6.95	5.95
18163	GB118	200 asst. 1/8W resistor networks (2&5%) (8 & 10-pin SIP package, 22Ω-150kΩ)	0.2	5.95	5.39

## Trimmers, Single and Multi-Turn Potentiometers

18075	GB113 ✓	200 assorted 1/10W to 1/5W trimmer pots (100Ω to 2MΩ values)	0.3	\$9.95	\$8.95
18278	GB174	100 asst. 1/4W to 3/4W linear, single & multi-turn pots (100Ω to 5MΩ assorted values)	0.2	12.95	11.49
135407	GB174LB	300 asst. 1/4W to 3/4W linear pots (above)	1.0	29.95	26.95

## Bumpers and Rubber Feet Assortment

2081385	GB201	100 assorted bumpers & adhesive rubber feet		\$8.95	\$7.95
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## Spacer, Standoff and Terminal Assortments

55968	GB140	100 assorted 4-40, 6-32, 8-32 round/hex, aluminum/steel, spacers/standoffs	0.3	\$14.95	\$12.95
135423	GB140LB	300 assorted same as P/N 55968	1.0	34.95	31.49
2082118	GB203 ✓	200 assorted solderless terminals (spade, ring, faston, butt, crimp types)	0.6	4.95	4.49

## Screw Hardware and Drill Bit Assortments

• Plastic	• Steel	• Brass	• Aluminum				
171571	GB149	500 assorted types of screws, #2, 4, 6, 8 nuts, washers & lock washers	1.0	.....	\$6.95	\$6.25	
171635	GB149LB	1400 asst. same as P/N 171571	3.2	.....	14.95	13.49	
2082038	GB202	20 assorted drill bits 7 sizes: .021" (#75) through .125" (#1/8)	0.3	.....	19.95	18.49	

## Schwab's Electronic Component School Selection

Jameco's nine (9) most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer Loren Schwab recommended this selection of products as standard items. He also recommended a 20-drawer component cabinet with labels (319600, see photo above) for storage.

**Includes:** Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, spacers and standoffs.

What's your suggestion?

Part No.	Product No.	Description	Wt. (lbs.)	1	10
163213	GB197	Schwab's School Selection	2.2	\$69.95	\$63.95
319600	6897CAB	20 drawer component cabinet	3.5	19.95	17.95

\$98.55 Value

BONUS!

Grab Bags marked with ✓ — Double the Quantity for the Same Price!

## Integrated Circuits and IC Sockets

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17996	GB108	100 assorted TTL series DIP & SMD (SOIC) (74, 74ALS, 74HC, 74HCT, 74F, 74LS, 74S)	0.2	\$12.95	\$11.49
135280	GB108LB	400 assorted TTL series DIP & SMD (SOIC)	1.0	44.95	39.95
18024	GB109	100 asst. linear series, 8,14,16-pin DIPs	0.2	9.95	8.95
114964	GB171	50 assorted Micros, RAMs, SRAMs, PROMs, EPROMs, CPU, DRAMMs (DIP)	0.2	12.95	11.49
105620	GB120	100 assorted sockets (DIP, PGA, SIMM, SIP)	0.3	6.95	5.95

## Diodes, Transistors and Crystals/Oscillators

17961	GB107	200 assorted diodes (zener, switching, silicon rectifiers)	0.1	\$9.95	\$8.95
18171	GB127	100 asst. transistors/thyristors (NPN, PNP)	0.1	9.95	7.95
114446	GB150	100 assorted crystals/oscillators	0.2	7.95	6.95

## Switches, Toy Motors & Gear Sets

2133472	GB206	50 assorted DIP switches (2-12 position, LP, slide, rocker, R/A, std)	0.2	\$6.95	\$6.25
18235	GB165	50 assorted switches (toggle, pushbutton, rocker, slide, DIP)	0.4	9.95	8.95
135378	GB165LB	150 assorted #18235 switches	2.0	24.95	22.49
18294	GB182	5 assorted toy DC motors (1.5-24V)	0.5	7.95	6.95
1810072	GB210	10 pcs. gear set, plastic, black T10, 20, 30, 40, 50 with bushings	0.2	6.95	6.25

## LEDs, Displays, Lasers, Photocells & Solar Cells

18041	GB110	100 assorted LEDs (all colors) (T1 & T1½ round and rectangular)	0.1	\$6.95	\$6.25
2226943	GB110R	100 assorted LEDs (red only)	0.1	4.95	4.49
2226951	GB110G	100 assorted LEDs (green only)	0.1	4.95	4.49
2226960	GB110Y	100 assorted LEDs (yellow only)	0.1	4.95	4.49
135271	GB110LB	1800 assorted LEDs (all colors) #18041	1.0	49.95	44.95
2203311	GB310	100 assorted PCB housing colored LEDs (T1 & T1½ single to multiple rt. angle LEDs)	0.5	4.95	4.49
18201	GB162	50 assorted sizes of colored displays (7-seg, LCD, dot-matrix, bar graph)	0.5	19.95	17.95
2228691	GB219	5 assorted red laser pointers (650nm, 1500' range, various case colors)	0.9	6.95	6.25
169578	GB125	50 assorted values photocells	0.2	16.95	14.95
2113666	GB213	40 assorted size solar cells	0.1	9.95	8.95

## Molex/Tyco Style Headers, Connectors & Contacts

2095138	GB204 ✓	200 asst. .079/100 male headers (straight, right angle, single and double row)	0.6	\$9.95	\$8.95
2133739	GB207 ✓	200 asst. IDC, CMNL, Mini-Fit JR/SR, power connectors, .100, .118, .165 (straight & R/A)	0.8	9.95	8.95
2202693	GB218	200 asst. contacts, 12-14, 16, 22-28 AWG male and female crimp style contacts	0.3	6.95	6.25

## Surprise Electronic Component Grab Bag (2 lbs.)

Axial and radial electrolytics, monolithic, dipped silver mica and mylar capacitors, ICs, connectors, sockets, headers, thermistors, LEDs, resistor networks, diodes, standoffs, transistors, oscillators/resonators, inductors, crystals, resistors, pots and switches (hundreds).

Best Seller!



Part No.	Product No.	Description	1	10
135263	GB191LB ✓	Assorted electronic components, 8"L x 8"W x 2"H	\$19.95	\$17.95

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

3 LEVELS OF SAVINGS		
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Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Electrolytic Capacitors

3 LEVELS OF SAVINGS		
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JAMECO ValuePro

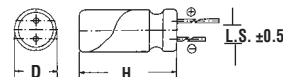
## Aluminum Radial-Lead Polarized Electrolytic Capacitors (±20%) 85°C

\* Web Code: CCE

Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



NEW  
MARKED IN PINK



† CROSS REFERENCES: Nichicon: LB/VX/USA/SR/SA/UVR; Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

\* Order in multiples of 10

\* Order in multiples of 10

Part No.	Cross Ref. No.†	Mfr.	Value (μF)	Volt	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
609043	UVR2A0R1MDD	JVP	0.1	100	5 x 11 x 2	\$ .25	\$ .09	\$ .07	\$ .05
330465	RA0.47/50	JVP	0.47	50	5 x 11 x 2	*	.19	.11	.08
330431	RA1/25	JVP	1	25	5 x 11 x 2	*	.15	.09	.06
94161	5R1/50	JVP	1	50	4 x 5 x 1.5	*	.19	.10	.07
29831	R1/50	JVP	1	50	5 x 11 x 2	*	.12	.07	.05
115423	R1/63	ADT	1	63	5 x 11 x 2	.25	.09	.05	.04
93729	R2.2/50	JVP	2.2	50	5 x 11 x 2	*	.09	.06	.04
93731	R2.2/50-R	JVP	2.2	50	5 x 11 x 2	*	.15	.09	.06
135184	R3.3/50	JVP	3.3	50	5 x 11 x 2	*	.15	.09	.06
2143460	R4.7/25	JVP	4.7	25	4 x 7 x 2.5	*	.15	.09	.06
2229597	R4.7/25V	JVP	4.7	25	5 x 11 x 2	.25	.15	.12	.09
2230109	R4.7/35	XIC	4.7	35	5 x 11 x 2	*	.12	.07	.05
31000	R4.7/50	JVP	4.7	50	5 x 11 x 2	*	.12	.07	.05
2235786	R6.8/50	NIC	6.8	50	5 x 11 x 5	*	.12	.07	.05
198839	R10J/16	JVP	10	16	5 x 11 x 2	*	.15	.09	.06
94212	5R10/25	JVP	10	25	4 x 5 x 1.5	*	.19	.12	.09
1946367	R10/25ATR	JVP	10	25	5 x 11 x 5	*	.12	.07	.06
94221	5R10/35	JVP	10	35	5 x 5 x 2	*	.19	.12	.09
29891	R10/50	JVP	10	50	5 x 11 x 2	*	.15	.09	.07
29893	R10/50-R	JVP	10	50	5 x 11 x 2	*	.19	.12	.09
1946295	R22/16	JVP	22	16	5 x 12 x 5	*	.12	.09	.05
93739	R22/50	JVP	22	50	5 x 11 x 2	*	.15	.09	.07
93747	R33/50	JVP	33	50	6.3 x 11 x 2.5	*	.19	.11	.08
1946244	R47/16TR	JVP	47	16	5 x 12 x 5	.25	.07	.04	.02
198952	R47J/35	JVP	47	35	5 x 11 x 2	*	.12	.07	.06
31114	R47/50	JVP	47	50	6 x 11 x 2.5	*	.15	.12	.09
330676	RA47/450-R	JVP	47	450	18 x 30 x 7.5	1.25	1.09	.99	.89
1946261	R68/16TR	JVP	68	16	5 x 11 x 5	.25	.07	.05	.04
2230539	R100/10	JVP	100	10	6 x 11 x 2	*	.12	.07	.05
330422	RA100/16	JVP	100	16	5 x 11 x 2	*	.15	.09	.07
94289	5R100/16	JVP	100	16	6.5 x 5 x 2.5	*	.19	.15	.10
93761	R100/25	JVP	100	25	6 x 11 x 5.0	*	.09	.07	.05
198970	R100J/35	JVP	100	35	6.3 x 11 x 2.5	*	.12	.09	.07
29962	R100/50	JVP	100	50	8 x 11 x 3.5	*	.15	.10	.08

Note: Above case sizes may have ± tolerances "TR" at the end of Cross Ref. numbers are Tape and Reel

Part No.	Cross Ref. No.†	Mfr.	Value (μF)	Volt	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
330529	RA100/100	JVP	100	100	10 x 17 x 5	\$ .49	\$ .29	\$ .19	\$ .15
330580	RA100/160S	JVP	100	160	16 x 25 x 7.5	.45	.29	.25	.19
330684	RA100/450	JVP	100	450	22 x 42.5 x 10.5	2.09	1.89	1.69	1.35
198872	R220J/16	JVP	220	16	6.3 x 11 x 2.5	*	.12	.07	.06
30496	R220/25	JVP	220	25	8 x 11 x 3.5	*	.19	.11	.08
93772	R220/35	JVP	220	35	8 x 12 x 3.5	*	.19	.12	.09
93778	R220/50	JVP	220	50	10 x 12 x 5	*	.15	.12	.09
93796	R330/25	JVP	330	25	10 x 12 x 5	*	.12	.08	.06
330473	RA330/50	JVP	330	50	10 x 16 x 5	.25	.15	.12	.09
93809	R470/16	JVP	470	16	8 x 11 x 3.5	*	.12	.09	.07
31181	R470/25	JVP	470	25	10 x 12 x 5	.39	.25	.19	.15
93817	R470/35	JVP	470	35	10 x 16 x 5	.29	.22	.14	.12
93827	R470/50	JVP	470	50	10 x 20 x 5	.49	.35	.25	.19
158465	R470B63	JVP	470	63	13 x 20 x 5	.55	.45	.29	.25
330456	RA680/25S	JVP	680	25	8 x 16 x 3.5	.35	.25	.19	.15
2229554	R680UF-25V	NCH	680	25	16 x 25 x 7	.25	.19	.15	.12
30015	R1000/16	JVP	1000	16	10 x 16 x 5	*	.15	.12	.09
93833	R1000/25	JVP	1000	25	10 x 20 x 5	.45	.29	.19	.17
93841	R1000/50	JVP	1000	50	13.6 x 25.8 x 5.5	.59	.49	.35	.29
199111	R1000J/100	JVP	1000	100	18 x 41 x 7.5	1.75	1.39	1.19	.99
133148	R2200/16	NCH	2200	16	18 x 16 x 5	.39	.25	.19	.15
30533	R2200/25	JVP	2200	25	12 x 25 x 5	.69	.49	.35	.29
30535	R2200/25-R	JVP	2200	25	13 x 21 x 5	.79	.55	.39	.35
2229546	R2200UF-25V	ADT	2200	25	22 x 40 x 12	.59	.49	.45	.35
198986	R2200J/35	JVP	2200	35	16 x 25 x 7.5	.75	.59	.39	.35
2234978	673D102	SPR	2900	40	25.5 x 74 x 10.5	1.95	1.75	1.49	1.25
198898	R3300J/16	JVP	3300	16	13 x 21 x 5	.69	.59	.49	.39
2231911	R3300/25/85	RIC	3300	25	16 x 26 x 7.5	.89	.75	.59	.55
30893	R3300/25	JVP	3300	25	13 x 29 x 5	.89	.75	.59	.49
2033551	UVR1V332MHD	NCH	3300	35	16 x 35.5 x 7.5	.89	.79	.69	.59
198901	EC470016H1626-R	JVP	4700	16	16 x 25 x 7.5	.79	.59	.49	.39
93850	R4700/25	JVP	4700	25	16 x 31 x 7.5	.99	.89	.69	.59
199006	R4700J/35	JVP	4700	35	18 x 35 x 7.5	1.49	1.25	.89	.79
163301	R4700/50	JVP	4700	50	25 x 40 x 12.7	1.75	1.39	1.19	1.09
198935	R6800J/25	JVP	6800	25	18 x 35.5 x 7.5	1.59	1.09	.85	.75

\* Capacitor dimensions and styles may vary

## Snap-Mount Large-Can Aluminum Electrolytic Capacitors (±20%)

- Operating temperature range: -40°C to +85°C; (SNB) -40°C to +105°C
- Can-top safety vent



2234994

NEW  
MARKED IN PINK

\* Web Code: EBG

Part No.	Product No.	Mfr.	Value (μF)	Volt	Size (mm)* D x H x L.S.	Pricing		
						1	10	100
2234994	80D330/200	SPR	330	200	30 x 37 x 10	\$ 1.95	\$ 1.75	\$ 1.49
2234986	LBAM470/250	ILC	470	250	30 x 31 x 12	2.95	2.59	2.29
2235137	S1500/50	ADT	1500	50	25 x 27 x 10	2.95	2.59	1.95
2235145	S2200/80	ILC	2200	80	22 x 41 x 10	2.95	2.59	1.95
331901	SNB6800/50	JVP	6800	50	25.2 x 42.4 x 9	3.95	3.59	3.25
157738	SNB10000/50	JVP	10000	50	35 x 40 x 12	4.95	4.49	3.95
331716	SNA15000/25	JVP	15000	25	25 x 41 x 9	2.95	2.75	2.49
2235153	S15000/50	ADT	15000	50	35 x 40 x 10	4.95	4.49	3.95

\* Capacitor dimensions and styles may vary

## Radial Electrolytic Capacitor Kit

240 pcs. (15 Values) Radial Electrolytic Capacitors

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611) and 30 adhesive labels for drawers to identify parts in kit.

10 each: 100μF @ 50V, 220μF @ 25V, 470μF @ 25V, 1000μF @ 16V, 2200μF @ 25V, 3300μF @ 25V

20 each: 1μF @ 50V, 1μF @ 100V, 2μF @ 50V, 3.3μF @ 50V, 4.7μF @ 50V, 10μF @ 50V, 22μF @ 50V, 47μF @ 50V, 100μF @ 25V

\* Web Code: CKS

Part No.	Description	1	5
81867	240 pcs. Radial Capacitor kit	\$44.95	\$39.95
130331	Refill for 81867 (240 pcs.)	29.95	24.95

\* Tantalum Capacitors — Enter Web Code VAE

\* Ceramic Disk Capacitors — Enter Web Code HBW

\* Snap-Mount Electrolytic Capacitors — Enter Web Code EBG

\* ADT = Arndt Electronics | ILC = Illinois Capacitor | JVP = Jameco ValuePro | NCH = Nichicon | NIC = NIC Components | RIC = Richey Capacitor | SPR = Sprague/Vishay | XIC = Xicon



# Electrolytic & Ceramic Trimmer Capacitors

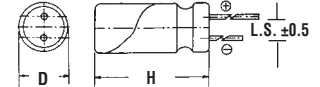
JAMECO ValuePro

## Aluminum Radial-Lead Polarized Electrolytic Capacitors (±20%) 105°C

\*Web Code: HAA

### 105°C – HT Type General Purpose

Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



† CROSS REFERENCES: Nichicon: LB/VX/USA/SR/SA/UPW/UVZ/UHE; Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU  
\* Order in multiples of 10

Part No.	Cross Ref. No.†	Mfr.	Value (μF)	Volt	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
609545	UVZ1H0R1MDD	JVP	0.1	50	5 x 11 x 2	*	\$ .12	\$ .09	\$ .07
330772	RB1/50	JVP	1	50	5 x 11 x 2	*	.12	.09	.07
158491	R1B100	JVP	1	100	5 x 11 x 2	*	.15	.11	.09
609561	UVZ1H2R2MDD	JVP	2.2	50	5 x 11.5 x 2	*	.15	.11	.09
330781	RB4.7/50	JVP	4.7	50	5 x 11 x 2	*	.15	.09	.07
330692	RB10/16	JVP	10	16	5 x 11 x 2	*	.15	.11	.09
330799	RB10/50	JVP	10	50	5 x 11 x 2	*	.15	.11	.09
609641	UVZ1J100MDD	JVP	10	63	5 x 11 x 2	*	.15	.11	.09
610036	UVZ2W100MHD	JVP	10	450	13 x 21 x 5	.69	.59	.45	.39
158327	R22B35	JVP	22	35	5 x 11 x 2	*	.07	.05	.04
93737	RB22/50TR	JVP	22	50	5.3 x 12 x 5	*	.09	.07	.05
2230281	R22/350	NCH	22	350	13 x 25 x 6	.69	.45	.29	.22
609502	UVZ1C470MDD	JVP	47	16	5 x 11 x 2	*	.15	.12	.09
330820	RB47/50	JVP	47	50	6.3 x 11 x 2.5	*	.15	.09	.07
610010	UVZ2E470MHD	JVP	47	250	13 x 25 x 5	.79	.55	.45	.39
330740	RB100/25	JVP	100	25	6.3 x 11 x 2.5	*	.15	.12	.09
158394	R100B50	JVP	100	50	8 x 11.5 x 3.5	*	.19	.15	.12
608032	UPL1J101MHH6	JVP	100	63	13 x 15 x 5	.25	.19	.15	.09
609967	UVZ2E101MHD	JVP	100	250	16 x 31 x 7.5	1.39	.99	.79	.59
2158426	RC120/400	ADT	120	400	16 x 35 x 7	1.09	.99	.89	.69
608340	ECA1JF151L	JVP	150	63	10 x 21 x 5	.25	.19	.15	.12
606934	EEUFC1J181	JVP	180	63	10 x 20 x 5	.25	.12	.09	.07
158263	R220B25	JVP	220	25	8 x 11 x 3.5	*	.15	.12	.09
93770	R220/35	JVP	220	35	10 x 16 x 5	*	.17	.15	.12
606820	UHE1H221MPD	JVP	220	50	10 x 16 x 5	.25	.19	.15	.12
609721	UVZ1V331MPD	JVP	330	35	10 x 16 x 5	.25	.19	.15	.12
158203	R470B16	JVP	470	16	8 x 11 x 3.5	*	.19	.15	.12

\* Capacitor dimensions and styles may vary

Part No.	Cross Ref. No.†	Mfr.	Value (μF)	Volt	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
158289	R470B25	JVP	470	25	10 x 16 x 5	.35	.29	.25	.19
606854	UHE1H471MPD	JVP	470	50	13 x 20 x 5	.39	.35	.29	.25
2133430	EEU-FN1C681L	PAN	680	16	8 x 21 x 2.5	.25	.19	.15	.12
2129781	CETM1Q1V681M1321B8	SAM	680	35	13 x 21 x 4	.59	.45	.29	.25
607355	UPWID821MPD	JVP	820	6.3	14.5 x 8.2 x 3.5	.39	.29	.15	.12
606432	UHEQJ102MPD	JVP	1000	6.3	8 x 14 x 3.5	.25	.19	.15	.12
607363	UPW1A102MPD	JVP	1000	10	8 x 20 x 3.5	.39	.29	.19	.15
330722	RB1000/16	JVP	1000	16	10 x 20 x 5	.39	.29	.19	.15
2234302	RB1000/16-12	ADT	1000	16	12 x 14 x 5	.39	.29	.19	.15
158298	R1000B25	JVP	1000	25	10 x 17 x 5	.35	.29	.25	.22
1984494	EEU-EB1V102	PAN	1000	35	16 x 26 x 5	.79	.69	.59	.49
158378	R1000B35	JVP	1000	35	13 x 21 x 5	.59	.55	.49	.39
609553	UVZ1H102MHD	JVP	1000	50	13 x 25 x 5	.75	.65	.55	.45
607742	UPW1E152MHD6	JVP	1500	25	12.5 x 25 x 5	.59	.55	.49	.39
606467	UHEQJ182MHD	JVP	1800	6.3	10 x 20 x 5	.39	.25	.19	.15
609342	UVZQJ222MPD	JVP	2200	6.3	10 x 20 x 5	.35	.19	.15	.12
606563	UHE1A222MPD	JVP	2200	10	10 x 21 x 5	.45	.39	.29	.25
609490	UVZ1C222MHD	NCH	2200	16	13 x 25 x 5	.59	.55	.45	.39
2229562	CEVSM1E222(V)-J2	ADT	2200	25	16 x 38 x 7	.49	.39	.29	.25
158431	R2200B35	ILC	2200	35	18.5 x 35 x 7.5	.69	.59	.49	.39
609705	UVZ1V222MHD	JVP	2200	35	16 x 26 x 7.5	.79	.69	.59	.49
158432	R2200B50	JVP	2200	50	16 x 30 x 7.5	.95	.85	.75	.59
608278	UPW1V332MHD	JVP	3300	35	18 x 33 x 7.5	1.39	1.09	.75	.65
609588	UVZ1H332MHD	JVP	3300	50	18 x 36 x 7.5	1.49	1.19	.85	.75
607814	UPW1E472MHD	JVP	4700	25	18 x 39 x 7.5	1.19	1.05	.89	.75
2203098	R5600B6.3	ADT	5600	6.3	12.5 x 40 x 5	.25	.19	.15	.12
2125641	R5600B16	NCH	5600	16	16 x 40 x 7.5	.39	.25	.19	.15
609473	UVZ1C103MHD	JVP	10000	16	18 x 41 x 7.5	1.25	1.09	.99	.89

\* Capacitor dimensions and styles may vary

## Ceramic Trimmer Capacitors

### 5mm (.197")

- Working voltage: 200VDC
- Withstand voltage: 400VDC
- Turning torque: 35-200 g-cm
- Q Factor @ 1MHz: >200
- Operating temperature range: -30°C ~ +85°C
- Insulation resistance: >10MΩ min. @ 250VDC

2178822

136979

Part No.	Capacitance Range (pF)	Color Code	1	10	100	500
2178822	2.5-5.0	Nil	.79	.69	.59	.45
136979	9.0-50.0	Green	.89	.79	.69	.59

### 8mm (.315")

- Working voltage: 250VDC
- Withstand volt.: 550VDC
- Turning torque: 40-200 g-cm
- Q Factor @ 1MHz: >300
- Operating temperature range: -55°C ~ +85°C
- Insulation resistance: 10MΩ min. @ 250VDC

Part No.	Capacitance Range (pF)	Color Code	1	10	100	500
134818	3.5-13.0	Ivory	1.95	1.75	1.49	1.25
32839	4.0-34.0	Yellow	1.95	1.75	1.49	1.25
32855	6.0-70	Nil	1.95	1.75	1.49	1.25
94449	8.5-100	Purple	1.95	1.75	1.49	1.25
94466	8.5-120	Nil	1.95	1.75	1.49	1.25

## COMPONENT GRAB BAGS

### Capacitors and Inductors/Chokes

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17857	GB100	200 assorted ceramic disc capacitors	0.2	\$6.95	\$5.95
17881	GB101	100 assorted mylar capacitors	0.3	7.95	6.95
17911	GB102	100 assorted electrolytic capacitors radial, axial, snap, 85°C, 105°C, ±20%	0.5	9.95	8.95
17945	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1	9.95	8.95
2081342	GB200	100 assorted axial chokes & inductors	2.0	14.95	13.49

### Resistor and Resistor Network Assortments

134130	GB115	200 asst. 1/8, 1/4, 1/2 resistors (1.5&10%)	0.8	\$6.95	\$5.95
18104	GB116	200 assorted 1/4W resistors (1.5&10%)	0.1	6.95	5.95
18139	GB117	200 assorted 1/2W resistors (5&10%)	0.2	6.95	5.95
18163	GB118	200 asst. 1/8W resistor networks (2&5%) (8 & 10-pin SIP package, 22Ω-150kΩ)	0.2	5.95	5.39

### Trimmers, Single and Multi-Turn Potentiometers

18075	GB113	200 assorted 1/10W to 1/5W trimmer pots (100Ω to 2MΩ values)	0.3	\$9.95	\$8.95
18278	GB174	100 asst. 1/4W to 3/4W linear, single & multi-turn pots (100Ω to 5MΩ assorted values)	0.2	12.95	11.49
135407	GB174LB	300 asst. 1/4W to 3/4W linear pots (above)	1.0	29.95	26.95

\* ADT = Arndt Electronics | JVP = Jameco ValuePro | ILC = Illinois Capacitor | NCH = Nichicon | PAN = Panasonic | SAM = Samsung

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

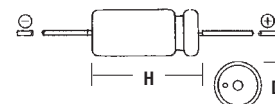
# Electrolytic, Dipped Tantalum & Ceramic Capacitors

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## JAMECO ValuePro Aluminum Axial-Lead Electrolytic Capacitors (±20%) 85°C

\*Web Code: GAA

Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2μA, whichever is greater



Part No.	Product No.	*Mfr.	Value (μF)	Volt (V)	Size (mm)* D x H	Pricing			
						1	10	100	500
10866	A1/50	JVP	1.0	50	5 x 13	.35	.29	.25	.22
93569	A2.2/50	JVP	2.2	50	6 x 13	.39	.35	.29	.27
2215638	A2.0/35	ADT	2.5	35	6 x 13	.25	.12	.09	.07
11076	A4.7/50	JVP	4.7	50	6 x 13	.39	.35	.29	.27
1946199	A10/16	JVP	10	16	4 x 7	.39	.35	.29	.27
10882	A10/50	JVP	10	50	6 x 12	.49	.45	.39	.37
331425	AB10/450	JVP	10	450	13 x 25	1.75	1.49	1.09	.99
199268	A22J/25	JVP	22	25	6 x 12.5	.39	.35	.29	.27
2202520	A22/35#	VHS	22	35	6 x 13	.35	.29	.19	.15
10997	A22/50	ILC	22	50	16 x 12	.49	.39	.35	.25
331433	AB22/450	JVP	22	450	16 x 26.5	1.75	1.49	1.09	.99
135319	A47/25	JVP	47	25	8 x 16	.49	.39	.32	.27
11105	A47/50	JVP	47	50	8 x 16	.55	.49	.45	.39
199188	A100J/16	JVP	100	16	6 x 12.5	.55	.49	.45	.39
93551	A100/35	JVP	100	35	8 x 16	.59	.55	.49	.45
10911	A100/50	JVP	100	50	8 x 20	.79	.75	.69	.59
331417	AB100/250	JVP	100	250	18 x 39	1.49	1.25	.99	.85
2150811	A220/16	JVP	220	16	10 x 21	.39	.35	.29	.25
11019	A220/50	JVP	220	50	10 x 17	.79	.69	.59	.55

\*Capacitor dimensions and styles may vary #105°C

Part No.	Product No.	*Mfr.	Value (μF)	Volt (V)	Size (mm)* D x H	Pricing			
						1	10	100	500
2234943	A330/50	ILC	330	50	10 x 25	\$1.35	\$1.19	\$ .99	\$ .89
2235794	A470/16	MST	470	16	8 x 21	.49	.39	.29	.25
199381	A470J/35	JVP	470	35	10 x 21	1.25	1.09	.99	.89
11123	A470/50	JVP	470	50	13 x 22	1.35	1.19	.99	.89
2215689	T200V680UF	ADT	680	200	25 x 50	2.95	2.75	2.49	2.25
10954	A1000/25	JVP	1000	25	13 x 26	.95	.85	.75	.65
93649	A1000/35	JVP	1000	35	13 x 31	1.49	1.09	.99	.85
147256	A1000/50	JVP	1000	50	16 x 31	1.75	1.49	1.09	.99
11033	A2200/16	JVP	2200	16	16 x 40	1.09	.99	.89	.79
93658	A2200/35	JVP	2200	35	16 x 30	1.49	1.25	1.09	.95
199479	A2200J/50	JVP	2200	50	18 x 33	1.95	1.75	1.25	1.09
2144972	A3300/16	JVP	3300	16	16 x 26	1.49	1.25	1.09	.89
199487	A3300J/50	JVP	3300	50	22 x 43	2.49	2.09	1.85	1.59
2229538	A4700/16	ADT	4700	16	16 x 36	.99	.89	.79	.69
93673	A4700/25	JVP	4700	25	19 x 36	2.09	1.75	1.49	1.25
158650	A4700A25	JVP	4700	25	22 x 40	1.25	1.09	.89	.79
158811	A4700A50	JVP	4700	50	22 x 40	2.95	2.59	2.29	2.09
93681	A10000/16	JVP	10000	16	22 x 51	2.95	2.39	2.09	1.89
2215671	16V22000	ADT	22000	16	25 x 60	2.95	2.75	2.49	2.25

\*Capacitor dimensions and styles may vary

## JAMECO ValuePro Resin Dipped Solid Tantalum Capacitors (±10%) 85°C

- Operating temperature range: -55°C to +85°C (+125°C with derating)
- Exceptional temperature stability
- Flame retardant coating
- Designed for entertainment and commercial equipment
- Rated voltage DC: ≤ +85°C
- Moisture-resistant
- Low leakage current

† P/Ns 2178726/2167357/2178785/2178769: ±20%

\*Web Code: VAE



Part No.	Product No.	*Mfr.	Value (μF)	Volt (V)	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
545561	TAP104K035SCS	JVP	.10	35	4.0 x 6.0 x 2.5	.39	.29	.25	.19
33486	TM.1/35	JVP	.10	35	4.5 x 7.0 x 5.2	.35	.25	.19	.15
33507	TM.22/35	JVP	.22	35	4.5 x 7.0 x 5.0	.39	.29	.25	.19
2178726	TM.33/35/20†	ADT	.33	35	3.4 x 6.5 x 5.0	.25	.15	.12	.09
33523	TM.33/35	JVP	.33	35	4.5 x 7.0 x 2.5	.29	.25	.19	.15
33531	TM.47/35	JVP	.47	35	4.5 x 7.0 x 2.7	.39	.25	.19	.15
545588	TAP105K025SCS	JVP	1	25	4.3 x 7.0 x 2.5	.35	.25	.19	.15
154860	TM1/25	JVP	1	25	4.5 x 7.0 x 4.7	.35	.25	.19	.15
545596	TAP105K035SCS	JVP	1	35	4.3 x 7.0 x 2.5	.35	.25	.19	.15
33662	TM1/35	JVP	1	35	4.5 x 7.0 x 2.7	.39	.29	.19	.15
545609	TAP105K050SCS	JVP	1	50	4.7 x 7.5 x 2.5	.69	.55	.39	.29
2167357	TAP155M035BRS†	AVX	1.5	35	4.5 x 8.0 x 5.0	.29	.25	.19	.15
94001	TM2.2/16	JVP	2.2	16	4.5 x 7.0 x 4.7	.45	.35	.29	.25
33736	TM2.2/35	JVP	2.2	35	5.0 x 8.0 x 2.5	.49	.45	.35	.29
545941	TAP335K025SCS	JVP	3.3	25	4.3 x 7.0 x 2.5	.49	.39	.29	.25
94035	TM4.7/16	JVP	4.7	16	5.0 x 8.0 x 2.5	.39	.35	.29	.25
546071	TAP475K025SCS	JVP	4.7	25	4.3 x 7.0 x 2.5	.49	.39	.29	.25
546089	TAP475K035SCS	JVP	4.7	35	4.7 x 7.5 x 2.5	.55	.45	.35	.25
33806	TM4.7/35	JVP	4.7	35	5.5 x 9.5 x 2.5	.55	.45	.35	.25

\*Capacitor dimensions and styles may vary Note: Above case sizes may have ±20% tolerances

Part No.	Product No.	*Mfr.	Value (μF)	Volt (V)	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
33873	TM6.8/35	JVP	6.8	35	6.5 x 9.0 x 4.7	.59	.49	.39	.29
545625	TAP106K010SCS	JVP	10	10	4.7 x 7.5 x 2.5	.45	.39	.35	.29
94060	TM10/16	JVP	10	16	4.6 x 7.5 x 3.2	.45	.35	.25	.19
94062	TM10/16-R	JVP	10	16	5.0 x 8.0 x 2.5	.45	.35	.25	.19
545633	TAP106K020SCS	JVP	10	20	5.4 x 8.0 x 2.5	.69	.59	.49	.39
2178785	TM10/25/20†	ADT	10	25	6.0 x 5.0 x 5.0	.45	.35	.25	.19
545641	TAP106K025SCS	JVP	10	25	5.4 x 8.0 x 2.5	.59	.49	.45	.39
94078	TM10/25	JVP	10	25	5.5 x 9.5 x 2.8	.55	.45	.39	.35
33689	TM10/35	JVP	10	35	6.5 x 11.0 x 4.7	1.19	.99	.79	.65
33719	TM15/25	JVP	15	25	4.5 x 8.0 x 2.5	1.59	1.39	1.25	.99
33751	TM22/6.3	JVP	22	6.3	4.7 x 7.5 x 2.5	.29	.25	.19	.15
545852	TAP226K016SCS	JVP	22	16	5.4 x 8.0 x 2.5	.69	.59	.49	.39
94094	TM22/16	JVP	22	16	5.5 x 9.5 x 4.1	.69	.59	.49	.39
2040196	TAP226K035SCS	AVX	22	35	8.5 x 12.5 x 2.5	2.25	1.95	1.75	1.49
33785	TM33/25	JVP	33	25	8.5 x 13.0 x 4.7	1.75	1.49	1.25	1.09
94123	TM47/16	JVP	47	16	5.2 x 8.2 x 2.0	1.25	1.09	.99	.89
546118	TAP476K016SCS	JVP	47	16	6.0 x 9.4 x 2.5	.79	.69	.59	.49
33822	TM47	JVP	47	25	9.5 x 16.5 x 2.5	1.95	1.75	1.49	1.25
597450	TAP107K016CCS	JVP	100	16	7.0 x 11.0 x 2.5	2.49	2.25	1.95	1.75
2178769	TAP157M016CCS†	ADT	150	16	7.5 x 10.7 x 4.5	1.49	1.25	1.09	.99

## JAMECO ValuePro Axial Leaded Ceramic Capacitors (±5 & ±10%)

50, 100 and 200 Volt, NPO and X7R Temperature Coefficient

- Operating temperature range: -55°C to +125°C

Part No.	Product No.	*Mfr.	Value	Volt (V)	Temp Co-eff.	Tol.	Pricing		
							1	10	100
2229790	SA102A150JAA	AVX	15pF	200	NPO	5	.19	.17	.15
2229802	SA101A181KAA	AVX	180pF	100	NPO	10	.17	.15	.12
2229829	SA101C471KAA	AVX	470pF	100	X7R	10	.19	.17	.15

Part No.	Product No.	*Mfr.	Value	Volt (V)	Temp Co-eff.	Tol.	Pricing		
							1	10	100
1069763	SA101C222KAA	JVP	2200pF	100	X7R	10	*	\$ .12	\$ .09
2229837	SA101C472KAA	AVX	4700pF	100	X7R	10	.19	.17	.15
2229811	SA205C473KAA	AVX	.047μF	50	X7R	10	.19	.17	.15
546290	P10R103K5	JVP	.01μF	50	X7R	10	*	.12	.09
536542	P20R104K5	JVP	.1μF	50	X7R	10	.45	.39	.35

\* ADT = Arndt Electronics | AVX = AVX Corp. | ILC = Illinois Capacitor | JVP = Jameco ValuePro | MST = Matsushita Electronic Comp. | VSH = Vishay

# Ceramic Disc, Radial Capacitors & Resonator

## JAMECO ValuePro Ceramic Disc Capacitors ( $\pm 5$ , $\pm 10$ or $\pm 20\%$ ) 85°C

\* Web Code: HBW



25, 50, 500 and 1000 Volt, Z5U Temperature Coefficient

- Dielectric withstanding voltage: 2.5 times rated volt. for not < 1 sec.
- Operating temperature range: +10°C to +85°C
- Capacitance change over temp. range: +22% to -56%

\* Order in multiples of 10

\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Value	Volt (V)	Tol.	Dia. (mm)	Pricing				
							1	10	100	500	1000
15333	DC10	JVP	10pF	50	20	5	*	\$.08	\$.06	\$.05	\$.04
15405	DC22	JVP	22pF	50	20	5	*	.08	.06	.05	.04
332217	DC33/50	JVP	33pF	50	20	5	.25	.12	.10	.08	.05
1947028	DC33ATR*	JVP	33pF	500	5	6	.25	.10	.08	.06	.04
15512	DC47	JVP	47pF	50	20	5	*	.10	.08	.06	.04
15552	DC68	ADT	68pF	50	5	4	*	.10	.08	.06	.04
15341	DC100	JVP	100pF	50	20	5	*	.10	.08	.06	.04
1947044	DC100TR*	JVP	100pF	100	10	7	.25	.15	.10	.08	.06
1947052	DC150TR	JVP	150pF	100	10	8	.25	.09	.05	.03	.02
1947087	DC150ATR	JVP	150pF	100	✓	4	.25	.05	.04	.03	.02
15413	DC220	JVP	220pF	50	20	5	*	.15	.10	.08	.06
1947132	DC220TR	JVP	220pF	50	5	8	.25	.07	.04	.03	.02
1947301	DC330TR*	JVP	330pF	100	✓	5	.25	.09	.05	.03	.02
15528	DC470	JVP	470pF	50	20	5	*	.10	.08	.06	.04
1947319	DC470TR*	JVP	470pF	100	✓	5	.25	.10	.08	.06	.04
2162759	DC820	ADT	820pF	1000	20	7	.25	.15	.10	.08	.06
15190	DC.001	JVP	.001μF	50	20	5	*	.10	.08	.06	.04
1947343	DC.001TR	ADT	.001μF	100	✓	4	.25	.10	.08	.06	.04

\*Tape and Reel ✓ +80% to -20%

Part No.	Product No.	*Mfr.	Value	Volt (V)	Tol.	Dia. (mm)	Pricing				
							1	10	100	500	1000
1947415	DC.001BTR*	JVP	.001μF	500	10	7	\$.25	\$.10	\$.08	\$.06	\$.04
1947327	DC.0022TR*	JVP	.0022μF	25	20	4	.39	.35	.29	.25	.19
1947407	DC.0033	JVP	.0033μF	500	20	9	*	.15	.10	.08	.06
2159883	DC.0033/1000	ADT	.0033μF	1000	20	7	.39	.35	.29	.25	.19
15211	DC.0047	JVP	.0047μF	50	20	8	*	.09	.06	.05	.03
1947335	DC.0047TR*	JVP	.0047μF	100	✓	5	.25	.10	.08	.06	.04
15229	DC.01	JVP	.01μF	50	20	6	*	.12	.09	.07	.05
97375	DC.01/1K20	JVP	.01μF	1000	20	11	.29	.25	.19	.15	.12
332487	CD20000/1000	JVP	.02μF	1000	20	14	.49	.45	.35	.29	.25
15245	DC.022	JVP	.022μF	50	20	3	.29	.25	.18	.15	.12
1947351	DC.047B	JVP	.047μF	25	✓	7	.25	.12	.09	.06	.05
15253	DC.047	JVP	.047μF	50	20	4	*	.19	.15	.12	.09
332507	CD50000/1000	JVP	.05μF	1000	20	19	.59	.49	.45	.39	.35
151116	DC.1/25	JVP	.1μF	25	20	5	*	.15	.12	.09	.07
2146302	DC.1-5MM	JVP	.1μF	50	20	6	*	.15	.12	.09	.07
15270	DC.1	JVP	.1μF	50	20	7	*	.19	.15	.12	.09
2146311	SC45YV1H104Z	JVP	.1μF	50	20	11	*	.19	.15	.12	.09
332516	CD100000/1000	JVP	.1μF	1000	20	22	.59	.49	.39	.35	.29

\*Tape and Reel ✓ +80% to -20%

Passives

## JAMECO ValuePro Monolithic Radial Ceramic Capacitors ( $\pm 5$ , $\pm 10$ or $\pm 20\%$ )

Applications:

- Data processing
- Communications engineering

### NPO (COG) Series ( $\pm 5\%$ )

\* Web Code: JBW

- Operating temp. range: -55°C to +125°C

Order in multiples of 10

Part No.	Product No.	*Mfr.	Value	Volt (V)	Size (mm)* W x T x H x L.S.	Pricing			
						10	100	500	1000
2159816	B3798N5102K1	ADT	1nF	63	4.7 x 1.7 x 6.1 x 2.6	\$.19	\$.09	\$.07	\$.05
332523	COG10/100	JVP	10pF	100	4 x 2 x 3.2 x 5.1	.19	.12	.08	.07
332541	COG22/100	JVP	22pF	100	3.6 x 2.3 x 3.6 x 2.5	.19	.12	.08	.07
332567	COG47/100	JVP	47pF	100	3.8 x 2 x 3.3 x 2.5	.19	.12	.08	.07

### X7R Series ( $\pm 10\%$ )

\* Web Code: JBX

- Operating temp. range: -55°C to +125°C

\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Value	Volt (V)	Size (mm)* W x T x H x L.S.	Pricing				
						1	10	100	500	1000
332583	MOC100/100	JVP	100pF	100	5x5x3x2.5	*	\$.19	\$.12	\$.08	\$.07
332612	MOC470/100	JVP	470pF	100	5x5x3x2.5	*	.19	.12	.08	.07
544825	SR151C102KAA	JVP	1000pF	100	3.8x2.5x3.8x2.5	*	.19	.12	.08	.07
544833	SR151C103KAA	JVP	.01μF	100	3.8x2.5x3.8x2.5	.29	.25	.15	.09	.08
332647	MOC10000/100	JVP	.01μF	100	5x5x3x2.5	.25	.19	.12	.07	.05
332655	MOC22000/100	JVP	.022μF	100	5x5x3x2.5	.29	.25	.15	.09	.08
544905	SR211C333KAA	JVP	.033μF	100	3.8x2.5x3.8x5.1	.29	.25	.15	.09	.08
544913	SR211C473KAA	JVP	.047μF	100	3.8x2.5x3.8x5.1	.29	.25	.15	.09	.08
544921	SR215C104KAA	JVP	.1μF	50	3.8x2.5x3.8x5.1	*	.15	.12	.09	.07
544884	SR211C104KAA	JVP	.1μF	100	3.8x2.5x3.8x5.1	.29	.25	.19	.15	.12
332672	MOC100000/100	JVP	.1μF	100	5x5x3x2.5	.29	.25	.15	.12	.09
544948	SR305C474KAA	JVP	.47μF	50	3.8x2.5x3.8x5.1	.39	.35	.29	.25	.19

\* Capacitor dimensions and styles may vary Note: Above case sizes may have  $\pm$  tolerances

### Z5U Series ( $\pm 20\%$ )

- Operating temp. range: +10°C to +85°C

\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Value	Volt (V)	Size (mm)* W x T x H x L.S.	Pricing			
						1	10	100	500
81543	MD10	JVP	10pF	50	3.5 x 2 x 3 x 2.5	*	\$.15	\$.12	\$.09
81533	MD22	JVP	22pF	50	4 x 2 x 4 x 5.1	*	.15	.12	.09
81525	MD100	JVP	100pF	50	3.3 x 2 x 3 x 2.5	*	.15	.12	.09
81517	MD.001	JVP	.001μF	50	4.5 x 2 x 3 x 2.5	*	.15	.12	.06
138202	MD.0047	JVP	.0047μF	50	3.3 x 2.2 x 5.5 x 4.6	*	.15	.12	.09
25507	MD.01	JVP	.01μF	50	3.5 x 2 x 3 x 5.1	*	.19	.15	.12
57621	MD.047	JVP	.047μF	50	2.5 x 2.5 x 3 x 2.5	*	.19	.15	.10
25525	MD.1	JVP	.1μF	50	4 x 3 x 5 x 4.6	.25	.17	.13	.08
544868	SR205E104MAA	JVP	.1μF	50	4 x 2.6 x 3.8 x 2.5	*	.19	.15	.10
25523	MD.1-R	JVP	.1μF	50	6 x 2 x 4 x 5.1	*	.19	.15	.10
25540	MD.22	JVP	.22μF	50	6 x 2 x 4.5 x 5.1	.29	.25	.19	.15
544930	SR215E334MAA	JVP	.33μF	50	3.8 x 2.5 x 3.8 x 5.1	.29	.25	.19	.15
138237	MD.33	JVP	.33μF	50	6 x 2 x 8 x 5.1	.29	.25	.19	.15
25558	MD.47	JVP	.47μF	50	4.5 x 2.5 x 4.5 x 5.1	.39	.29	.19	.15
544956	SR305E105MAA	JVP	1μF	50	3.8 x 2.5 x 3.8 x 5.1	.45	.35	.25	.19
768183	SR305E105MAR	AVX	1μF	50	7.6 x 3.8 x 7.6 x 5.1	.49	.45	.39	.35
81509	MD1	JVP	1μF	50	6 x 3 x 7 x 5.1	.49	.39	.29	.25

\* Capacitor dimensions and styles may vary

Note: Above case sizes may have  $\pm$  tolerances

## JAMECO ValuePro Ceramic Resonator

- Frequency accuracy:  $\pm 0.5\%$  @ 25°C
- Extended temp. range: -20°C to +85°C
- Withstanding volt. (5 sec): 100V max.

\* Web Code: CRS



Part No.	Product No.	Frequency	Resistance	Pins	1	10	100
324672	TZTT-20.00MT	20.0MHz	30Ω	3	\$.49	\$.45	\$.39

## JAMECO ValuePro Memory Back-Up Capacitor

Applications:

- Back-up on CMOS microcomputers, static RAM, DTSS (digital tuning systems)
- Memory back-up of remote controllers

\* Web Code: SAB

Features: • Voltage: 5.5VDC, 8VDC • Small size vs. capacitance



Part No.	Cross Ref. No.	Value (F)	Volts	Dia. x Thick x Pin (mm)	1	10	100
142957	MBC1.0/5.5	1.0	5.5	19.8 x 7.5 x 5.3	\$3.59	\$3.29	\$2.95

\* ADT = Arndt Electronics | AVX = AVX Corp. | JVP = Jameco ValuePro

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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## Metallized Polyester Capacitors (±10%)

- 10% tolerance
- Operating temp. range: -40°C to +85°C
- Ideal for use in audio applications

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MARKED IN PINK

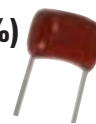


## Panasonic® Metallized Film Capacitors (±5%)

### V Series – Stacked

- Operating temp. range: -40°C to 85°C
- Low dissipation factor: 1% max.

\*Web Code: KWJ



Part No.	Product No.	Value (µF)	Volt. (V)	Size (mm)* W x H x T x L.S.	Pricing		
					1	10	100
2159808	B32693A3A152J-20†	.0015	2500	25.5 x 9.2 x 5.7 x 22	\$.25	\$.049	\$.035
2236560	MPP473K/400	.047	400	20 x 16 x 8 x 21	.99	.89	.79
2236586	MPP104K/400	.10	400	26 x 20 x 11 x 21	.89	.79	.69
2236607	MPP224K/400	.22	400	24 x 14.5 x 9 x 20	.79	.69	.59
2236623	MPP474K/400	.47	400	30 x 18 x 11 x 27.5	1.49	1.35	1.19
2192691	2101-1K0-155KF*	1.50	1000	56 x 26	1.19	.99	.79

†+110°C max. temp.; Mfr.: Epcos \*Axial leads; Mfr.: Tecate Group

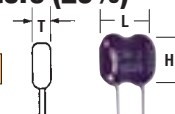
Part No.	Product No.	Value (µF)	Volt. (V)	Dimensions (mm) W x H x Th. x L.S.	Pricing			
					1	10	100	500
920561	ECQ-V1H224JL	.22	50	6.8 x 3.6 x 5 x 4.7	\$.39	\$.35	\$.29	\$.25
2217351	ECQ-E6224JF	.22	630	17.5 x 14.7 x 8.1 x 13.7	.49	.39	.29	.25

## Jameco ValuePro Dipped Silver Mica Capacitors (±5%)

### Metallized Polyester Film

- Case type: DM15 • Lead space: 0.23"
- Operating temp. range: -55° to +125°C
- Tolerance: ±5%

\*Web Code: HAB



## Metallized Polyester Film Mylar Capacitors (±10%)

- Non-inductive construction
- Operating temp. range: -40°C to +85°C
- Dissipation factor: 0.01 (at 1kHz)
- Dielectric strength: 150% of rated voltage for 5 sec.

JAMECO ValuePro

\*Web Code: KWJ

\* Order in multiples of 10

Part No.	Product No.	Mfr.	Value (µF)	Volt. (V)	Size (mm)* L x T x H x L.S.	Pricing			
						1	10	100	1000
26833	MY.001	JVP	.001	100	7 x 3 x 7 x 5.1	*.12	\$.08	\$.06	
1946164	MY.0068	JVP	.0068	100	5.5 x 2.5 x 10 x 5.1	*.12	.08	.06	
26884	MY.01	JVP	.01	100	5 x 2.3 x 9 x 4	*.19	.15	.12	
2217334	EQ-E6103JF	PAN	.01	630	12.3 x 4.1 x 6.85 x 10.3	.29	.25	.17	.15
207837	MY.018/50	JVP	.018	50	6.1 x 2.6 x 11.3 x 5.1	.25	.09	.07	.05
26905	MY.022	JVP	.022	100	6 x 3 x 10 x 5.1	*.19	.15	.10	
26921	MY.033	JVP	.033	100	8 x 4 x 11 x 16.1	*.19	.15	.10	
2230299	MY.047-100	ADT	.047	100	8 x 3.7 x 10 x 7	.25	.15	.12	.10
26930	MY.047	JVP	.047	100	8 x 4 x 12 x 5.1	*.19	.15	.12	
1946172	MY.068	JVP	.068	100	8.6 x 4 x 11 x 7.6	*.15	.12	.07	
2261351	MER104J1HA0	JVP	.10	50	7.3 x 4 x 5 x 5	*.19	.15	.12	
26956	MY.1	JVP	.10	100	12.5 x 5 x 9.5 x 7.6	.29	.25	.19	.15
93921	MY.1/250	JVP	.10	250	12.5 x 5.5 x 10 x 10.1	.29	.22	.17	.14
1983424	MY.1/630	PAN	.10	630	16.7 x 4.9 x 11 x 14.5	.45	.39	.35	.29
26972	MY.22	JVP	.22	100	9.2 x 5.1 x 7.8 x 4.7	.35	.29	.25	.19
2203101	MY.22K	ADT	.22	100	12.5 x 6 x 17 x 10	.29	.25	.19	.15
2208930	QXJ2J224KTP†	NCH	.22	630	23 x 7 x 15 x 21	.49	.39	.29	.25
93964	MY.33/250	JVP	.33	250	18 x 7 x 12.5 x 15.2	.49	.45	.39	.29
2236973	MER474J1HA0	JVP	.47	50	7 x 7 x 5 x 5	.35	.29	.25	.19
26999	MY.47	JVP	.47	100	18 x 6 x 11.5 x 16.1	.49	.45	.35	.25
27001	MY.1	JVP	1.0	100	18 x 7.5 x 14 x 15.2	.69	.59	.49	.35
1983395	MY.1/400	PAN	1.0	400	24.5 x 6.8 x 14.8 x 21.9	.79	.65	.49	.39
93999	MY.2/250	JVP	2.2	250	26 x 9 x 16 x 27.9	1.25	1.09	.95	.69
2129852	MKT368	VSH	6.8	100	27 x 10 x 18 x 22	2.75	2.49	2.25	1.49

\*Capacitor dimensions and styles may vary #105°C

\* ADT = Arndt | JVP = Jameco ValuePro | NCH = Nchicon | PAN = Panasonic | VSH = Vishay

\*Capacitor dimensions and styles may vary †Manufacturer: Cornell Dubille

## Jameco ValuePro Radial Leaded Varistors

- LA equivalent series
- Recognized as transient voltage surge suppressors
- Designed to be operated continuously across AC power lines
- No derating up to 85°C ambient • UL/CSA/VDE approved

\*Web Code: CEF

Part No.	Product No.	Continuous Voltage		Transient Energy Joules	Max. Clamping Voltage		Pricing		
		V <sub>M(AC)</sub>	V <sub>M(DC)</sub>		V <sub>C</sub>	I <sub>PK(A)</sub>	1	10	100
34446	V130LA10A	130	175	38	340	50	\$.35	\$.29	\$.25
34471	V250LA20	250	330	72	650	50	.35	.29	.25
2208809	DNR20D751K	460	615	175	1240	100	.39	.29	.25

## Jameco ValuePro NTC Thermistors

- Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Max. allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°C (@ 250°C)
- Resistance value allowable difference: 10%

\*Web Code: RBG

Part No.	Product No.	Resistance (Ω @ 25°C)	B Constant (25/50°C >10%)	Temp. Coef. @25°C (%/°C)	Pricing		
					1	10	100
207483	NTC-102	1k	3800	-4.3	\$.55	\$.49	\$.45
207441	NTC-502	5k	3900	-4.4	.55	.49	.45
207037	NTC-103	10k	4100	-4.6	.59	.55	.45
207002	NTC-503	50k	4200	-4.7	.55	.49	.45
2234126	AP03201*	10k	3965	-4.4	1.39	1.25	1.09

\*2-foot cable (24 AWG)

## Jameco ValuePro Cadmium Sulfide (CdS) Photocells

- Generate variable signal based on detection of light levels
- Operating temperature: -30°C to +70°C
- Soldering: 230°C for 3 seconds

\*Web Code: CBG

**Applications:** Auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers

Part No.	Cross Ref. No.	Rating		Resistance (Ω)		Size (inches)		Lead Spacing (inches)	Lead Length (inches)	Pricing			
		Vp	mW	Dark	Light	A	B			1	10	100	500
2215451	NSL4140†	80	50	800k	14k	0.19	0.18	0.10	1.50	\$1.95	\$1.75	\$1.59	\$1.29
202366	CDS0029001	150	90	300k	4k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	.95
120310	CDS0029004	150	90	2M	27k	0.14	0.17	0.10	1.44	1.49	1.35	1.19	.95
202391	CDS0029203	150	90	10M	5k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	.95
202382	CDS0029008	150	90	20M	10k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	.95
202403	CDS0018001	150	100	200k	3k	0.17	0.20	0.13	1.02	1.15	.99	.89	.79
202420	CDS0018003	150	100	500k	16k	0.17	0.20	0.13	1.02	1.15	.99	.89	.79
202411	CDS0018006	150	100	5M	80k	0.17	0.20	0.13	1.02	1.15	.99	.89	.79
120301	CDS0037001	200	150	300k	3k	0.25	0.29	0.20	1.02	1.49	1.35	1.19	.95
202438	CDS0037004	200	150	500k	15k	0.25	0.29	0.20	1.02	1.49	1.35	1.19	.95
120299	CDS0045001	350	400	300k	8k	0.37	0.43	0.30	1.44	1.79	1.59	1.45	1.19
202454	CDS0045003	350	400	1M	12k	0.37	0.43	0.30	1.44	1.79	1.59	1.45	1.19

†Manufacturer: Silonex

JAMECO ValuePro

## 1/8-Watt Carbon Film Resistor (±5%) Assortment

Part No.	Cross Ref.	Values	Description (see chart, right)	1	5
108303	ASST1830	x #	10 ea. of 24 values marked by x and 50 ea. of 6 values marked below by # (540 pcs.)	\$14.95	\$13.49
108329	CAB182R	See description	1/8 watt resistor component cabinet kit 30 values (540 pcs.) see page 26	29.95	26.95

## 1/8-Watt Resistor Assortment Values (Ohms)

10 x	150 x	330 x	680 x	2.0k x	3.3k x	5.6k x	15k x	33k x	470k x
47 x	220 #	390 x	1.0k #	2.2k x	4.7k #	6.8k x	22k x	47k x	1.0M x
100 #	270 x	470 x	1.5k x	2.7k x	5.1k x	10k #	27k x	100k #	10M x

\*Component Kits — Enter Web Code CKS

JAMECO ValuePro

## 1/4-Watt Carbon Film Resistors (±5%) RoHS

## Assortment Pricing: 1/4-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks

Part No.	Cross Ref. No.	Values Included	Description (see chart below)	Pricing		
				1	5	50
2217511	PRO0524P	—	25 ea. 20 values (500 pcs.)	\$9.95	\$8.95	\$7.95
10720	ASST8-R	—	5 ea. 70 values (350 pcs.)	9.95	8.95	7.95
2131039	K/RES-E12	■	10 ea. 61 values (610 pcs.)	8.95	7.95	6.95
103166	ASST30-R	● *	10 ea. 24 values marked ● and 50 ea. 6 values marked * (540 pcs.)	14.95	13.49	11.95
10664	ASST27-R	▲	100 ea. 27 values marked (2,700 pcs.)	34.95	31.49	28.95
81832	—	—	1/4-watt resistor cabinet kit 30 values, see pg 26 (540 pcs.)	29.95	26.95	24.95



\*Web Code: RCN

## Single Value Resistor Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below. Values may not be combined for quantity price breaks. \*Values marked below also come in 10 packs.

Pricing per Resistor (Please order in increments of 10* or 100)				
Specify Part No. & Resistor Value	*10	100	1000	5000
(See Standard Resistor Values Chart below)	\$ .099	\$ .04	\$ .03	\$ .02

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
690216	2.2	690427	15	690620	100	690822	680	691024	4.7k	691227	33k	691420	220k	691622	1.5M
690224	2.4	690435	16	690638	110	690831	750	691032	5.1k	691235	36k	691438	240k	691631	1.6M
690232	2.7	690443	18	690646	120	690849	820	691041	5.6k	691243	39k	691446	270k	691692	1.8M
690241	3.0	690451	20	690654	130	690857	910	691059	6.2k	691251	43k	691454	300k	691649	2.0M
690259	3.3	690460	22	690662	150	690865	1.0k	691067	6.8k	691260	47k	691462	330k	691657	2.2M
690267	3.6	690478	24	690671	160	690873	1.1k	691075	7.5k	691278	51k	691471	360k	691665	2.4M
690275	3.9	690486	27	690689	180	690881	1.2k	691083	8.2k	691286	56k	691489	390k	691673	2.7M
690283	4.3	690494	30	690697	200	690890	1.3k	691091	9.1k	691294	62k	691497	430k	691681	3.0M
690291	4.7	690507	33	690700	220	690902	1.5k	691104	10k	691307	68k	691500	470k	691690	3.3M
690304	5.1	690515	36	690718	240	690911	1.6k	691112	11k	691315	75k	691518	510k	691702	3.6M
690312	5.6	690523	39	690726	270	690929	1.8k	691121	12k	691323	82k	691526	560k	691711	3.9M
690321	6.2	690531	43	690734	300	690937	2.0k	691139	13k	691331	91k	691534	620k	691737	4.7M
690339	6.8	690540	47	690742	330	690945	2.2k	691147	15k	691340	100k	691542	680k	691745	5.1M
690347	7.5	690558	51	690751	360	690953	2.4k	691155	16k	691358	110k	691551	750k	691753	5.6M
690363	8.2	690566	56	690769	390	690961	2.7k	691163	18k	691366	120k	691569	820k	691761	6.2M
690371	9.1	690574	62	690777	430	690970	3.0k	691171	20k	691374	130k	691577	910k	691770	6.8M
690380	10	690582	68	690785	470	690988	3.3k	691180	22k	691382	150k	691585	1.0M	691788	7.5M
690398	11	690591	75	690793	510	690996	3.6k	691198	24k	691391	160k	691593	1.1M	691796	8.2M
690401	12	690603	82	690806	560	691008	3.9k	691201	27k	691403	180k	691606	1.2M	691809	9.1M
690419	13	690611	91	690814	620	691016	4.3k	691219	30k	691411	200k	691614	1.3M	691817	10M

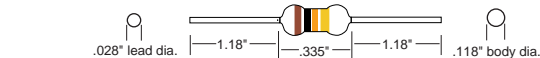
JAMECO ValuePro

## 1/2-Watt Carbon Film Resistors (±5%) RoHS

## Assortment Pricing: 1/2-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks

Part No.	Cross Ref. No.	Values Included	Description (see chart below)	1	5
107853	ASST1230	x #	10 ea. of 24 values marked by x and 50 ea. of 6 values marked by # (540 pcs.)	\$24.95	\$22.49
107845	ASST1227	✓	100 ea. of 70 values marked by 4 (2,700 pcs.)	39.95	36.95
107837	ASST1270	See description	5 ea. of 70 values (every other value from 10Ω - 5.6MΩ)(350 pcs.)	10.95	9.95
107879	CAB12R	See description	1/2-watt resistor component cabinet kit - 30 values (540 pcs.), see page 26	39.95	34.95



\*Web Code: SCH

## Single Resistor Value Pricing: 1/2-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below. Values may not be combined for quantity price breaks. \*Values marked below also come in 10 packs.

Pricing Per Resistor (Please order in increments of 10* or 100)				
Specify Part No. & Resistor Value	*10	100	1000	5000
(See Standard Resistor Values Chart below)	\$ .099	\$ .05	\$ .04	\$ .03

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659577	1.0	659868	16	661280	120	661440	560	661600	2.7k	661781	13k	661950	68k	662215	820k
659614	1.5	659884	20	661301	150	661466	680	661618	3.0k	661790	15k	661976	82k	662231	1.0M
659657	2.2	659892	22	661327	180	661474	750	661634	3.3k	661811	18k	661992	100k	662240	1.1M
659673	2.7	661124	27	661335	200	661482	820	661642	3.6k	661829	20k	662004	110k	662282	1.6M
659737	4.7	661141	33	661343	220	661503	1.0k	661651	3.9k	661837	22k	662039	150k	662291	1.8M
659788	7.5	661183	47	661351	240	661520	1.2k	661677	4.7k	661845	24k	662071	220k	662311	2.2M
659809	9.1	661191	51	661360	270	661538	1.3k	661685	5.1k	661853	27k	662098	270k	662320	2.4M
659817	10	661204	56	661378	300	661546	1.5k	661693	5.6k	661870	33k	662119	330k	662362	3.6M
659825	11	661221	68	661386	330	661554	1.6k	661714	6.8k	661896	39k	662127	360k	662397	4.7M
659833	12	661239	75	661407	390	661562	1.8k	661731	8.2k	661909	43k	662135	390k	662426	6.2M
659841	13	661247	82	661423	470	661571	2.0k	661757	10k	661917	47k	662151	470k	662469	9.1M
659850	15	661263	100	661431	510	661589	2.2k	661773	12k	661933	56k	662186	620k	662477	10M

\*Metal Film Resistors — Enter Web Code MTL

\*RC Series 5% SMD Thick Film Resistors — Enter Web Code THF

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Resistors, Chokes, Inductors & Potentiometers

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## 1 & 2-Watt Carbon Film Resistors (5%) RoHS

**NEW**  
MARKED IN PINK

### Single Resistor Value Pricing: 1 & 2-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below. Values may not be combined for quantity price breaks. \*Values marked below also come in 10 packs.

	Lead Dia.	Body Dia.	Body Length	Lead Length
1 Watt	0.037"	0.172"	0.435"	1.312"
2 Watt	0.04"	0.192"	0.589"	1.312"

### 1-Watt Pricing Per Resistor (Please order in increments of 10\* or 100) \*Web Code: TFO

Specify Part No. & Resistor Value	*10	100	500
(See Standard Resistor Values Chart below)	\$ .19	\$ .15	\$ .12

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
2244965	10	2237167†	220	2237191†	1K	2245001	22K
2244973	47	2237175†	330	2237204†	2.2K	2245010	47K
2237159†	100	2237183†	470	2237212†	4.7K	2237239†	100K
2244981	150	2244990	680	2237221†	10K	2245028	1M
2240147	† 1-watt assortment, 10 ea. of 9 values above, \$13.95 each						

### 2-Watt Pricing Per Resistor \*Web Code: TFC

Specify Part No. & Resistor Value	1	10	100
(See Standard Resistor Values Chart below)	\$ .25	\$ .22	\$ .19

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
2237301†	4.7	2245052	150	2245061	680	2245079	22K
2245036	10	2237255†	220	2237280†	1K	2245087	47K
2245044	47	2237263†	330	2237298†	2.2K	2237327†	100K
2237247†	100	2237271†	470	2237319†	10K	2245095	1M
2240155	† 2-watt assortment, 10 ea. of 9 values above, \$14.95 each						

## Dual-In-Line "DIP" Resistor Networks ±2% (G)

### 16-Pin (140mW/Resistor) ±2% Isolated

\*Web Code: GAP

- Max. operating voltage: 100V
- Temp. coefficient: ±100ppm/°C
- Operating temperature: -55°C to +125°C
- Insulation res.: 10,000MΩ min.

	1	10	100	500
Pricing	\$ .59	\$ .55	\$ .49	\$ .45
Orange Pricing	.25	.07	.05	.04

\*SIP Resistor Networks — Enter Web Code WRN

## JAMECO ValuePro High-Current Toroid Inductors

### J.W. Miller 2100/2300 Series Value Equivalents

- Low radiation
- Low core loss
- Operating temperature: -55°C to +105°C

\*Web Code: KBY

Part No.	Cross Ref.	Description	L (μH) @ 1kHz	Horizontal	Vertical
371581	2109-H	Horizontal	47	\$1.25	\$1.09
371856	2112-V	Vertical	100	1.49	1.25
387268	2316-V	Vertical	220	1.95	1.75
371979	2124-V	Vertical	1000	1.95	1.75

## JAMECO ValuePro Chokes

**NEW**  
MARKED IN PINK

### J.W. Miller Series Equivalents

\*Web Code: WBG

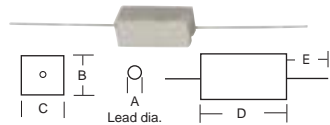
Part No.	Cross Ref. No.	Description	Fig.	Inductance Value (μH) ±10%	Pricing
372453	1501-1R0K	Conformal coated axial	1	1	\$ .99
372171	78F100J-VP	Conformal coated axial	1	10	.19
208194	CEC-101J	Conformal coated	1	100	.19
372269	78F221J-VP	Conformal coated axial	1	220	.19
2258654	RL-1256-2-470	Epoxy coated core	2	470	1.09
208240	CEC-102J	Conformal coated	1	1000	.35
642741	5800-103	High current axial RF	3	10000	.69
642927	5900-103	High current axial RF	3	10000	.99
2233967	VC1019-503K	High current axial RF	3	50000	1.09
2233959	VC1019-104K	High current axial RF	3	100000	1.19



## 5 & 10-Watt Wirewound Resistors (5%)

### Horizontal Mount/Axial Lead

- Temperature range: -55°C to +155°C
- Moisture resistant
- High temperature stability
- Exceptionally small, sturdy and reliable



	A	B	C	D	E
5 Watt	0.03"	0.354"	0.393"	0.87"	1.38"
10 Watt	0.03"	0.354"	0.393"	1.92"	1.30"

### 5-Watt Resistors

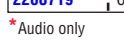
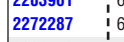
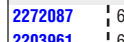
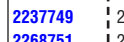
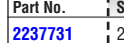
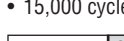
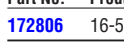
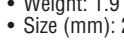
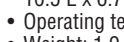
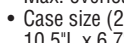
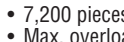
See resistor value chart below				1	10	100	
Pricing				\$ .69	\$ .65	\$ .59	
Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659956	0.10	660279	4	660447	20	660623	100
660050	0.5	660295	5	660480	27	660877	1k
660130	1	660375	10	660551	50	661036	10k
660201	2						





### 10-Watt Resistors

See resistor value chart below				1		10		100	
Pricing				\$ .99		\$ .89		\$ .79	
Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms		
2246590	2	2246581	10	2246565	100	2246602		4.7k	
2246611	5	2246629	50	2246557	1K	2246573		10k	

\*5W/10W Wirewound Resistors — Enter Web Code TCH

## 125mW SIP Bussed Conformal Coated Resistor Network



	1	10	100	500
Pricing	\$ .29	\$ .25	\$ .19	\$ .15

[★ Web Code: WRN](#)

Part No.	Pins	Ohms	Tol. (±%)
97877	10	1.0k	2
97893	10	2.2k	2
24660	10	4.7k	2
24643	10	10k	2
98095	10	100k	2

Part No.	Pins	Ohms	Tol. (±%)
268032	6	10k	2
97826	8	10k	2
97851	10	330	2
97869	10	470	2

## 0805 (1/8W) Chip Resistor Assortment (±5%) \*Web Code: CKS

### 144 Values, 50 pcs. each

- 7,200 pieces total
- Max. overload volt.: 200V
- Case size (2 cases): 10.5"L x 6.7"W x 1.7"T
- Operating temp.: 70°C
- Weight: 1.9 lbs.
- Size (mm): 2.0L x 1.25W x 0.5Thick
- Includes: Case with labels

### Resistance Value Chart:

2.2	12	91	510	3.0k	16k	75k	470k	2.7M
2.4	20	100	560	3.3k	18k	82k	510k	3.0M
2.7	22	120	620	3.6k	20k	91k	560k	3.3M
3.0	24	150	680	3.9k	22k	100k	620k	3.6M
3.3	27	160	750	4.3k	24k	120k	680k	3.9M
3.9	30	180	820	4.7k	27k	150k	750k	4.3M
4.3	33	200	910	5.1k	30k	160k	820k	4.7M
4.7	39	220	1.0k	5.6k	33k	180k	910k	5.1M
5.1	43	240	1.2k	6.2k	36k	200k	1.0M	5.8M
5.6	47	270	1.5k	6.8k	39k	240k	1.2M	6.2M
6.2	51	300	1.6k	7.5k	43k	270k	1.5M	6.8M
6.8	56	330	1.8k	8.2k	47k	300k	1.6M	7.5M
7.5	62	360	2.0k	9.1k	51k	330k	1.8M	8.2M
8.2	68	390	2.2k	10k	56k	360k	2.0M	9.1M
9.1	75	430	2.4k	12k	62k	390k	2.2M	10M
10	82	470	2.7k	15k	68k	430k	2.4M	



## Audio & Linear Slide Pots (±20%) \*Web Code: XGM

- Single slide
- Vertical terminals
- 15,000 cycle slide life

**NEW**  
MARKED IN PINK

2237731

2203961



Part No.	Slide Travel	Value	Wattage	Terminal	1	10	100
2237731	20mm	5k	100mW	PCB	\$1.75	\$1.49	\$1.19
2237749	20mm	10k	100mW	PCB	1.75	1.49	1.19
2268751	20mm	50k	200mW	PCB	2.95	2.59	1.95
2237757	30mm	10k	200mW	PCB	1.85	1.59	1.29
2268727	60mm	50k	500mW	Solder lug	2.95	2.59	1.95
2268735	60mm	1k	500mW	Solder lug	2.95	2.59	1.95
2272087	60mm*	5k	100mW	PCB	2.25	1.89	1.59
2203961	60mm	10k	200mW	PCB	2.25	1.89	1.59
2272287	60mm	10k	500mW	Solder lug	2.95	2.59	1.95
2268743	60mm	25k	500mW	Solder lug	2.95	2.59	1.95
2268759	60mm*	50k	250mW	PCB	2.25	1.89	1.59
2272095	60mm*	100k	100mW	PCB	2.25	1.89	1.59
2268719	60mm	1M	500mW	Solder lug	2.95	2.59	1.95

\*Audio only



40mW 12mm Audio Taper ( $\pm 5\%$ )

- Rotational angle: 300° ( $\pm 5^\circ$ )
- Max. working volt. 100V
- Solder lugs & PCB terminals
- Rotation life: 15,000 cycles
- D shaft: .235"D x .335"L



2268551



Use 2182688 (M7) for additional PNL MNT hardware, pg 78

Type	1	10	100	500
Single	\$1.95	\$1.75	\$1.49	\$1.25
Dual	3.95	3.39	2.79	2.39

Part No.	Mfr. Part No.	Type	Terminals	Ohms
2268567	RV120F-10-15F-A1K	Single	Solder	1k
2268983	RV120F-10-15F-A5K	Single	Solder	5k
2268991	RV120F-10-15F-A10K	Single	Solder	10k
2268999	RV120F-10-15F-A100K	Single	Solder	100k
2268543	RV120F-20-15F-A1K	Single	PCB	1k
2268623	RV120F-20-15F-A5K	Single	PCB	5k
2272543	RV120F-20-15F-A20K	Single	PCB	20k
2272303	RV120F-20-15F-A500K	Single	PCB	500k
2268559	RV120F-20-15F-A1M	Single	PCB	1M
2269023	RV122F-20-15F-A10K	Dual	PCB	10k
2269031	RV122F-20-15F-A100K	Dual	PCB	100k
2268527	RV122F-20-15F-A500K	Dual	PCB	500k
2268551	RV122F-20-15F-A1M	Dual	PCB	1M

40mW/80mW 12mm Snap-In ( $\pm 5\%$ )

- Rotation angle: 300° ( $\pm 5^\circ$ )
- PCB terminals
- Max. volt: 250VDC, 100VAC
- D Shaft: 0.235"D x 0.59"L
- Withstanding voltage for 1 minute: 250VAC



2269511

2271663

Use 2182688 for additional PNL MNT hardware, pg 78

Type	1	10	100	500
Single	\$1.79	\$1.59	\$1.29	\$1.15
Dual	2.25	1.95	1.69	1.49

Part No.	Mfr. Part No.	Type	40mW	Ohms
2269911	RV120DF-20-15A-A100K	Single	Audio	100k
2269919	RV120DF-20-15A-A500K	Single	Audio	500k
2269511	RV122DF-20-15A-A1K	Dual	Audio	1k
2271615	RV122DF-20-15A-A10K	Dual	Audio	10k
2271631	RV122DF-20-15A-A50K	Dual	Audio	50k

Part No.	Mfr. Part No.	Type	80mW	Ohms
2271663	RV120DF-20-15A-B1K	Single	Linear	1k
2271671	RV120DF-20-15A-B50K	Single	Linear	50k
2271687	RV120DF-20-15A-B500K	Single	Linear	500k
2271679	RV120DF-20-15A-B1M	Single	Linear	1M
2271623	RV122DF-20-15A-B1K	Dual	Linear	1k
2269431	RV122DF-20-15A-B50K	Dual	Linear	50k
2269927	RV122DF-20-15A-B500K	Dual	Linear	500k
2269415	RV122DF-20-15A-B1M	Dual	Linear	1M

\*Linear Taper Potentiometers — Enter Web Code JAE

1/2-Watt 24mm Linear Taper ( $\pm 10\%$ )

- Temperature range: -55°C to +125°C
- Maximum panel thickness: 0.1875"
- Mounting hole: 0.3125"
- Shaft: 0.25"D x 0.355"L
- Non-rotational key, non-slotted shaft end

29050



Use 2182602 for additional panel mounting hardware, pg 78

Quantity	1	10	100	500
Pricing	\$1.49	\$1.25	\$1.15	\$0.99

Part No.	Mfr. Part No.	Ohms	Part No.	Mfr. Part No.	Ohms
29050	RV24N1K	1k	2272311	RV24N20K	20k
29197	RV24N5K	5k	29103	RV24N100K	100k
29082	RV24N10K	10k	29066	RV24N1M	1M

50mW 9mm Snap-In ( $\pm 20\%$ )

- Rated voltage: 50VAC
- PCB terminal • Single turn
- Rotation life: 10,000 cycles
- Rotation angle: 280°  $\pm 5^\circ$
- Knurled shaft: 0.235" Dia.
- Tolerance: <1M  $\pm 20\%$ ; >1M  $\pm 30\%$



2269887

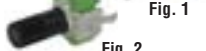


Fig. 1

Fig. 2

Quantity	1	10	100	500
Pricing	\$1.25	\$1.05	\$0.89	\$0.75

Part No.	Mfr. Part No.	Fig. Type*	Shaft L	Ohms
2269887	RV09AF-20-20K-A5K	1 A	0.457"	5k
2269383	RV09AF-20-20K-A10K	1 A	0.457"	10k
2269375	RV09AF-20-20K-A500K	1 A	0.457"	500k
2269895	RV09AF-20-20K-A1M	1 A	0.457"	1M
2272247	RV09AF-20-20K-B5K	1 B	0.457"	5k
2272255	RV09AF-20-20K-B10K	1 B	0.457"	10k
2272263	RV09AF-20-20K-B50K	1 B	0.457"	50k
2272271	RV09AF-20-20K-B100K	1 B	0.457"	100k
2269879	RV09AF-40-20K-A2K	2 A	0.787"	2k
2269351	RV09AF-40-20K-A10K	2 A	0.787"	10k
2269359	RV09AF-40-20K-A100K	2 A	0.787"	100k
2269903	RV09AF-40-20K-A500K	2 A	0.787"	500k
2272199	RV09AF-40-20K-B1K	2 B	0.787"	1k
2272535	RV09AF-40-20K-B5K	2 B	0.787"	5k
2272207	RV09AF-40-20K-B10K	2 B	0.787"	10k
2272215	RV09AF-40-20K-B50K	2 B	0.787"	50k
2272223	RV09AF-40-20K-B100K	2 B	0.787"	100k
2272231	RV09AF-40-20K-B500K	2 B	0.787"	500k
2272239	RV09AF-40-20K-B1M	2 B	0.787"	1M

\*A = Audio; B = Linear

50mW 11mm Dual Snap-In ( $\pm 20\%$ )

- Audio and linear
- Max. voltage: 300VAC
- PCB terminals
- D-shaft: 0.235"Dia.
- Without standing voltage for 1 minute: 500VAC



2271647



Use 2182602 for additional PNL MNT hardware, pg 78

Type	1	10	100	500
PCB Mounting	\$1.79	\$1.55	\$1.29	\$1.15
Panel Mounting	2.25	1.95	1.59	1.39

Part No.	Mfr. Part No.	Mounting	Type*	Shaft L	Ohms
2269495	RV112BF-40-25A-A10K	PCB	A	0.635"	10k
2271647	RV112BF-40-25A-A50K	PCB	A	0.500"	50k
2269935	RV112BGF-40-25A-A50K†	PCB	A	0.625"	50k
2272015	RV112BF-40-25A-A100K	PCB	A	0.625"	100k
2272023	RV112BF-40-25A-A500K	PCB	A	0.625"	500k
2272031	RV112BF-40-25A-A1M	PCB	A	0.625"	1M
2269503	RV112BF-40E1-25A-A50K	PCB/PNL	A	0.750"	50k
2272039	RV112BF-40-25A-B1K	PCB	B	0.625"	1k
2272047	RV112BF-40-25A-B10K	PCB	B	0.625"	10k
2272071	RV112BF-40-25A-B50K	PCB	B	0.625"	50k
2272055	RV112BF-40-25A-B100K	PCB	B	0.500"	100k
2271639	RV112BF-40E1-25A-B5K	PCB/PNL	B	0.750"	5k
2272063	RV112BF-40E1-25A-B1M	PCB/PNL	B	0.750"	1M

\*A = Audio; B = Linear † Non-bushing shaft

1/4W 15mm Linear Taper ( $\pm 20\%$ )

- Single turn thumb wheel
- Operating volt.: 250VAC
- Total rotation: 270°  $\pm 20\%$
- Withstand voltage: 1 minute @ 500VAC

\*Web Code: XGF

94714



Part No.	Mfr. Part No.	Ohms	1	10	100	500
94693	158-1K	1k	\$.69	\$.59	\$.49	\$.39
35503	158-2.5K	2.5k	\$.69	\$.59	\$.49	\$.39
94706	158-5K	5k	\$.69	\$.59	\$.49	\$.39
94714	158-10K	10k	\$.69	\$.59	\$.49	\$.39
94722	158-50K	50k	\$.69	\$.59	\$.49	\$.39
94731	158-100K	100k	\$.69	\$.59	\$.49	\$.39
2269399	158-1M	1M	\$.69	\$.59	\$.49	\$.39

60mW 16mm Audio Taper ( $\pm 5\%$ )

- 0.25"Dia. • Solder lugs
- Max voltage: 150VAC
- Insulation resistance: 100M $\Omega$  @ 500VDC
- 300° rotation angle ( $\pm 5\%$ )



2227014



2268407

Use 2182688 (M7) for additional PNL MNT hardware, pg 78

Quantity	1	10	100	500
Pricing	\$1.59	\$1.29	\$1.09	\$0.89

Part No.	Mfr. Part No.	Term./Type*	Shaft L	Ohms
2265727	RV16AF-10-15K-A1K	SE/KNL	0.335"	1k
2268415	RV16AF-10-15K-A2K	SE/KNL	0.335"	2k
2269119	RV16AF-10-15K-A5K	SE/KNL	0.335"	5k
2269127	RV16AF-10-15K-A10K	SE/KNL	0.335"	10k
2272447	RV16AF-10-15K-A25K	SE/KNL	0.335"	25k
2268503	RV16AF-10-15K-A50K	SE/KNL	0.335"	50k
2269135	RV16AF-10-15K-A100K	SE/KNL	0.335"	100k
2272455	RV16AF-10-15K-A250K	SE/KNL	0.335"	250k
2272463	RV16AF-10-15K-A500K	SE/KNL	0.335"	500k
2272471	RV16AF-10-15K-A1M	SE/KNL	0.335"	1M
2268455	RV16AF-10-15S1-A1K	SE/RND	0.335"	1k
2269959	RV16AF-10-15S1-A2K	SE/RND	0.335"	2k
2268487	RV16AF-10-15S1-A5K	SE/RND	0.335"	5k
2269151	RV16AF-10-15S1-A10K	SE/RND	0.335"	10k
2272014	RV16AF-10-15S1-A100K	SE/RND	0.335"	100k
2272006	RV16AF-10-15S1-A250K	SE/RND	0.335"	250k
2272153	RV16AF-10-15S1-A1M	SE/RND	0.335"	1M
2272137	RV16AF-10BL-165R1-A25K	SE/RND	0.437"	25k
2272090	RV16AF-10BL-165R1-A100K	SE/RND	0.437"	100k
2272081	RV16AF-10BL-165R1-A250K	SE/RND	0.437"	250k
2272102	RV16AF-10BL-165R1-A500K	SE/RND	0.437"	500k
2272145	RV16AF-10BL-165R1-A1M	SE/RND	0.437"	1M
2268687	RV16AF-10-20R1-A1K	SE/RND	0.535"	1k
2268703	RV16AF-10-20R1-A2K	SE/RND	0.535"	2k
2268679	RV16AF-10-20R1-A5K	SE/RND	0.535"	5k
2268479	RV16AF-10-20R1-A10K-LA	SE/RND	0.787"	10k
2268695	RV16AF-10-20R1-A50K	SE/RND	0.535"	50k
2269183	RV16AF-10-20R1-A100K	SE/RND	0.535"	100k
2269191	RV16AF-10-20R1-A1M	SE/RND	0.535"	1M
2268407	RV16AF-20-15K-A1K	PCB/KNL	0.335"	1k
2263632	RV16AF-20-15K-A2K	PCB/KNL	0.335"	2k
2268463	RV16AF-20-15K-A5K	PCB/KNL	0.335"	5k
2269199	RV16AF-20-15K-A10K	PCB/KNL	0.335"	10k
2269215	RV16AF-20-15K-A50K	PCB/KNL	0.335"	50k
2269207	RV16AF-20-15K-A100K	PCB/KNL	0.335"	100k
2272479	RV16AF-20-15K-A250K	PCB/KNL	0.335"	250k
2263624	RV16AF-20-15K-A500K	PCB/KNL	0.335"	500k
2269943	RV16AF-20-15S1-A1K	PCB/RND	0.335"	1k
2268423	RV16AF-20-15S1-A2K	PCB/RND	0.335"	2k
2268447	RV16AF-20-15S1-A5K	PCB/RND	0.335"	5k
2269223	RV16AF-20-15S1-A10K	PCB/RND	0.335"	10k
2268439	RV16AF-20-15S1-A25K	PCB/RND	0.335"	25k
2263608	RV16AF-20-15S1-A50K	PCB/RND	0.335"	50k
2268431	RV16AF-20-15S1-A100K	PCB/RND	0.335"	100k
2269967	RV16AF-20-15S1-A500K	PCB/RND	0.335"	500k
2268871	RV16AF-42-15R1-A250K†	PCB/RND	0.335"	250k

†R/A .787" PC leads \*SE = Solder eyelet; KNL = Knurl; RND = Round

## 3-6VDC Motorized Linear Pots

- Single shaft dual unit
- Motor volt.: 3-6VDC • D shaft: 0.472"
- Max. operating current: 100mA @ rotation, 150mA @ end slip
- Rotational speed: 11 $\pm 3$ sec./300° @ 4.5VDC



2268831



Quantity	1	10	100
Pricing	\$9.95	\$8.95	\$7.95

Part No.	Mfr. Part No.	Termination	Ohms
2268839	RC102-20F-B50K	PCB	50k
2268831	RC102-20F-B100K	PCB	100k

\*For additional products, availability and specifications visit [Jameco.com](http://www.Jameco.com) and enter the Web Code in the product search box

3 LEVELS OF SAVINGS		
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# Cermet Trimmer Potentiometers

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## Cermet Trimmer Potentiometers Bourns®, Vishay (Spectrol), BI Tech (Beckman), Clarostat, Murata & Weston Series

- Resistance tolerance:  $\pm 10\%$  • Insulation resistance: 1000M $\Omega$  min. (500VDC) • Absolute min. resistance: 2 $\Omega$  • Temp. range: -55°C to 125°C
- Manufacturers vary

### Bourns® 3006 Spectrol 43, BI Tech 79, 89, 90, Murata 2103 Series

- 3/4 watt, 3/4" rectangular, .25" H 15-turn, side adjust,  $\pm 10\%$



241269 (P)

Part No.	Series	Type	Ohm	1	10	100	250
241234	89PR10	P	10	\$1.09	\$ .99	\$ .89	\$ .69
768811	43P500	P	50	1.25	1.09	.99	.85
695990	89PR100	P	100	1.09	.99	.89	.69
768861	89PHR100†	P	100	1.35	1.09	.89	.79
2195593	90PR100✓	P	100	1.49	1.25	1.09	.99
241242	89PR200	P	200	1.09	.99	.89	.69
2195614	90PR250✓	P	250	1.49	1.25	1.09	.99
41937	43P501	P	500	1.49	1.25	1.09	.99
241269	2103P1K	P	1k	1.49	1.25	1.09	.99
2195585	90PR1K✓	P	1k	1.49	1.25	1.09	.99
768870	89PHR2K†	P	2k	1.25	1.09	.89	.79
41865	43P202	P	2k	1.25	1.09	.89	.79
2198364	79PR2K	P	2k	1.95	1.75	1.49	1.25
696052	3006P-1-202Z*	P	2k	2.95	2.69	2.39	2.09
41890	2103P5K	P	5k	1.25	1.09	.99	.89
41822	3006P-1-103VP	P	10k	1.25	1.09	.89	.79
2198348	79PR10K	P	10k	1.49	1.29	1.15	1.05
2195489	89PHR20K†	P	20k	1.25	1.09	.99	.89
41873	43P203	P	20k	1.49	1.25	1.09	.99
2195606	90PR20K✓	P	20k	1.49	1.25	1.09	.99
2198372	79PR20K	P	20k	1.95	1.75	1.49	1.25
241314	43P253	P	25k	1.25	1.09	.89	.79
768909	89PHR50K†	P	50k	1.25	1.09	.89	.79
241323	3006P-1-503VP	P	50k	1.25	1.09	.89	.79
696124	89PHR100K†	P	100k	1.25	1.09	.89	.79
41849	3006P-1-104VP	P	100k	1.25	1.09	.89	.79
2198356	79PR100K	P	100k	1.95	1.75	1.49	1.25
63001	43P204	P	200k	1.25	1.09	.89	.79
41953	89PR500K	P	500k	1.09	.99	.89	.69
2195631	90PR500K✓	P	500k	1.49	1.25	1.09	.99
241374	3006P-1-105VP	P	1M	1.25	1.09	.89	.79
2162901	89PR2MEG	P	2M	1.09	.99	.89	.69
2178371	89WHR10†	W	10	1.09	.99	.89	.69
2178401	43W200	W	20	1.25	1.09	.99	.89
2178451	89WHR50†	W	50	1.09	.99	.89	.69
2195569	89WHR100†	W	100	1.09	.99	.89	.69
2178380	89WR100	W	100	1.25	1.09	.99	.89
2178419	43W201	W	200	1.25	1.09	.99	.89
2178460	43W501	W	500	1.25	1.09	.99	.89
2195500	89WHR1K†	W	1k	1.09	.99	.89	.69
2198399	77PR2K	W	2k	1.25	1.09	.99	.89
1967037	3006W-1-103LF	W	10k	1.25	1.09	.99	.89
2178443	43W253	W	25k	1.75	1.49	1.25	1.09
2195526	89WHR50K†	W	50k	1.09	.99	.89	.69
2198401	76PR100K	W	100k	1.25	1.09	.99	.89
2178427	43W204	W	200k	1.25	1.09	.99	.89
2220269	3006W-1-254LF	W	250k	1.95	1.75	1.49	1.25
2198381	77PR1MEG	W	1M	1.25	1.09	.99	.89
2178435	43W205	W	2M	1.25	1.09	.99	.89
2180501	43Y500	Y	50	1.25	1.09	.99	.89
2195577	89XHR	Y	100	1.09	.99	.89	.75
2195833	89XHR100†#	Y	100	1.09	.99	.89	.75
2180463	43Y101	Y	100	1.25	1.09	.99	.89
2180480	89XR200	Y	200	1.25	1.09	.99	.89
2195534	89XHR500†	Y	500	1.25	1.09	.99	.89
2180471	43Y502	Y	5k	1.25	1.09	.99	.89
241293	3006Y-1-103VP	Y	10k	1.25	1.09	.99	.89
2195551	89XR50K	Y	50k	.99	.89	.75	.59
2180498	43Y204	Y	200k	1.25	1.09	.99	.89
2180455	43Y254	Y	250k	1.25	1.09	.99	.89
2180447	43Y205	Y	2M	.99	.89	.75	.59

\* Panel mount (PC leads) † .34" H ✓ 90PR (clear plastic)  
# -274 (.32" shaft)

### Bourns® 3059, Spectrol 70, BI Tech 56, 58, 78, Clarostat 370 Series (MIL-R-22097)

- 1 watt, 1-1/4" rectangular, 22-turn, side adjust,  $\pm 10\%$



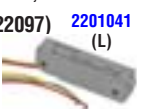
2194865 (P)

Part No.	Series	Type	Ohm	1	10	100	250
2198233	78LR100✓	L	100	\$6.95	\$6.25	\$5.59	\$4.95
2200840	78LBWR200*	L	200	9.95	8.95	7.95	6.95
2200866	78LR500✓	L	500	8.95	7.95	6.95	6.25
2198268	78LR5K✓	L	5k	8.95	7.95	6.95	6.25
2198292	78LR5K*	L	5k	9.95	8.95	7.95	6.95
2198276	78LR50K✓	L	50k	8.95	7.95	6.95	6.25
2162927	370L503	L	50k	19.95	17.95	15.95	13.95
2200410	56LR250K✓	L	250k	6.95	6.25	5.59	4.95
2200436	56LR500K✓	L	500k	6.95	6.25	5.59	4.95
2194890	56PR100	P	100	6.95	6.25	5.59	4.95
2194865	56PR1K	P	1k	6.95	6.25	5.59	4.95
2178355	70P203	P	20k	6.95	6.25	5.59	4.95
2178362	70P503	P	50k	6.95	6.25	5.59	4.95
2200508	58PR250K	P	250k	6.95	6.25	5.59	4.95
2194873	56PR500K	P	500k	6.95	6.25	5.59	4.95
2200541	58SR20\$	S	20	6.95	6.25	5.59	4.95
2200567	58SR200\$	S	200	6.95	6.25	5.59	4.95
2198102	58SR500\$	S	500	6.95	6.25	5.59	4.95
2200559	58SR200\$	S	20k	6.95	6.25	5.59	4.95
2162943	70Y100	Y	10	6.95	6.25	5.59	4.95
2198153	78PR20†	Y	20	3.49	2.95	2.59	2.29
2198188	78PR50†	Y	50	3.49	2.95	2.59	2.29
2162951	70Y101	Y	100	6.95	6.25	5.59	4.95
2198137	78PR100	Y	100	5.95	5.39	4.79	4.29
2198305	78PBWR100†	Y	100	6.95	6.25	5.59	4.95
2198161	78PR200†	Y	200	3.49	2.95	2.59	2.29
2163031	70Y501	Y	500	6.95	6.25	5.59	4.95
2200461	58PR1K	Y	1k	3.95	3.59	3.29	2.95
2162994	70Y202	Y	2k	6.95	6.25	5.59	4.95
2198145	78PR2K†	Y	2k	3.49	2.95	2.59	2.29
2163022	70Y252	Y	2.5k	6.95	6.25	5.59	4.95
2200516	58PR5K	Y	5k	3.95	3.59	3.29	2.95
2178321	70Y502	Y	5k	6.95	6.25	5.59	4.95
2198225	78PR10K-422E††	Y	10k	3.49	2.95	2.59	2.29
2200495	58PR20K	Y	20k	3.95	3.59	3.29	2.95
2180375	70Y503	Y	50k	6.95	6.25	5.59	4.95
2065705	3057Y-1-503#	Y	50k	9.95	8.95	7.95	6.95
2200479	58PR100K	Y	100k	3.95	3.59	3.29	2.95
2178339	70Y504	Y	500k	6.95	6.25	5.59	4.95
2162978	70Y105	Y	1M	6.95	6.25	5.59	4.95
2198170	78PR5MEG†	Y	5M	3.95	3.59	3.29	2.95

✓ 6" wire leads \* Panel mount (6" wire leads) † Panel mount (PC leads)  
\$ Solder lug # 5% (MIL-PRF-27208) †† Brass adjusted shaft

### BI Tech (Beckman) 55 Series (MIL-R-22097)

- 1 watt, 1-1/4" rectangular,  $\pm 10\%$ , 22-turn side adj., RJ11C, 85°C



2201041 (L)

Part No.	Series	Type	Ohm	1	10	100	250
2201050	55LR50✓	L	50	\$6.95	\$6.25	\$5.59	\$4.95
2201017	55LR100✓	L	100	6.95	6.25	5.59	4.95
2201041	55LR200✓	L	200	6.95	6.25	5.59	4.95
2201324	55LBWR200*	L	200	6.95	6.25	5.59	4.95
2201068	55LR50K✓	L	50k	6.95	6.25	5.59	4.95
2201033	55LR2MEG✓	L	2M	6.95	6.25	5.59	4.95
2201113	55PR10	P	10	6.95	6.25	5.59	4.95
2201164	55PR50	P	50	6.95	6.25	5.59	4.95
2201121	55PR100	P	100	6.95	6.25	5.59	4.95
2201172	55PR500	P	500	6.95	6.25	5.59	4.95
2201092	55PR1.5K	P	1.5k	6.95	6.25	5.59	4.95
2201201	55PR2K	P	2k	6.95	6.25	5.59	4.95
2201148	55PR2.5K	P	2.5k	6.95	6.25	5.59	4.95
2201228	55PR50K	P	50k	6.95	6.25	5.59	4.95
2201130	55PR100K	P	100k	6.95	6.25	5.59	4.95
2201156	55PR200K	P	200k	6.95	6.25	5.59	4.95
2201181	55SR50K\$	S	50k	6.95	6.25	5.59	4.95

✓ 6" wire leads \* Panel mount (6" wire leads) \$ Solder lug

### Bourns® 3262, Vishay/Spectrol 74 Series

- 1/4 watt, 1/4" square, 12-turn,  $\pm 10\%$ , 85°C
- Fully sealed housing (immersion)

696335

Part No.	Series	Type	Ohm	1	10	100	250
769039	3102P-1-502	P	5k	\$6.95	\$6.25	\$5.59	\$4.95
696335	74W102	W	1k	6.95	6.25	5.59	4.95
769063	74X501	X	500	6.95	6.25	5.59	4.95
769080	3262X-1-502LF	X	5k	6.95	6.25	5.59	4.95
769071	74X104	X	100k	6.95	6.25	5.59	4.95

P&X: side adjustment; W: top adjustment

### Bourns® 3266, Vishay/Spectrol 64 and BI Tech 64 Series

- 1/4 watt, 1/4" square,  $\pm 10\%$ , 70°C, 12-turn

254669 (W)

Part No.	Series	Type	Ohm	1	10	100	250
769098	64PR10K	P	10k	\$1.25	\$1.09	\$.89	\$.79
1156226	64PR100K	P	100k	1.25	1.09	.89	.79
2194881	64PR200K	P	200k	1.25	1.09	.99	.89
2200727	64WR50	W	50	1.49	1.25	1.09	.99
254626	64WR200	W	200	1.49	1.25	1.09	.99
2194945	64WR500	W	500	1.25	1.09	.89	.79
696351	64WR1K	W	1k	1.49	1.25	1.15	.99
2194929	64WR2K	W	2k	1.25	1.09	.89	.79
254669	3266W-1-502VP	W	5k	1.49	1.25	1.09	.99
254677	3266W-1-103VP	W	10k	1.95	1.75	1.49	1.25
696415	3266W-1-203VP	W	20k	1.49	1.25	1.09	.99
254714	64WR100K	W	100k	1.49	1.25	1.09	.99
696423	64WR200K	W	200k	1.49	1.25	1.09	.99
254730	64WR500K	W	500k	1.49	1.25	1.09	.99
696520	64XR500	X	500	1.49	1.25	1.09	.99
1156314	64XR1K	X	1k	1.49	1.25	1.09	.99
1156381	3266X-1-502LF	X	5k	1.25	1.09	.89	.79
1156331	64XR10K	X	10k	1.25	1.09	.89	.79
696474	64XR25K	X	25k	1.49	1.25	1.09	.99
696546	64XR50K	X	50k	1.49	1.25	1.09	.99
796223	64XR200K	X	200k	1.49	1.25	1.09	.99
2194953	64XR250K	X	250k	1.25	1.09	.99	.89
2194988	64YR20	Y	20	1.25	1.09	.99	.89
2194961	64YR100	Y	100	.99	.89	.75	.59
2199156	64YR200	Y	200	1.49	1.25	1.15	.99
2199148	64YR500	Y	500	.99	.89	.75	.59
2194970	64YR25K	Y	25k	.99	.89	.75	.59
1156411	64ZR1K	Z	1k	1.49	1.25	1.15	1.05



## Cermet Trimmer Potentiometers (Continued)

Bourns® 3296, Spectrol 64, Weston 850  
BI Tech 67PR, Clarostat 364 Series

- 1/2 watt,  
3/8" square,  
25-turn, ±10%, -55°C to +150°C

\* Web Code: XGB



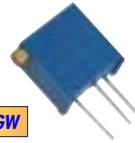
Part No.	Series	Type	Ohm	1	10	100	250
2180560	64P500	P	50	\$1.09	\$.99	\$.89	\$.75
2180615	64P201	P	200	1.09	.99	.89	.75
2180551	64P501	P	500	.99	.89	.79	.65
2037982	67PR102	P	1k	1.09	.99	.89	.75
2180607	64P102	P	2k	1.09	.99	.89	.75
2194363	RJR24FP202P	P	2k	2.95	2.59	2.29	1.95
2180623	64P252	P	2.5k	1.09	.99	.89	.75
769354	64P502	P	5k	.99	.89	.79	.65
853513	64P103	P	10k	1.09	.99	.89	.75
769338	64P203	P	20k	.89	.79	.69	.55
2180586	64P253	P	25k	1.09	.99	.89	.75
769362	364P503	P	50k	.99	.89	.79	.65
2180578	64P254	P	250k	1.09	.99	.89	.75
2038002	364P504	P	500k	.99	.89	.79	.65
769320	64P105	P	1M	1.09	.99	.89	.75
769371	364W10	W	10	1.09	.99	.89	.75
1946421	67WR50R	W	50	.99	.89	.79	.65
853530	64W101	W	100	1.29	1.15	1.05	.95
1156787	67WR200	W	200	1.29	1.15	1.05	.95
853759	67WR500	W	500	1.29	1.15	1.05	.95
853556	850W1K	W	1k	1.25	1.09	.99	.89
853652	67WR2K	W	2k	1.29	1.15	1.05	.95
853775	67WR5K	W	5k	1.95	1.75	1.59	1.39
241146	3296W-1-103VP	W	10k	1.49	1.29	1.15	1.05
853572	3296W-1-103LF	W	10k	1.95	1.75	1.59	1.39
853679	64W203	W	20k	1.49	1.29	1.15	1.05
2195163	67WR20K	W	20k	1.25	1.09	.99	.89
853791	3296W-1-503LF	W	50k	1.95	1.75	1.59	1.39
853599	67WR100K	W	100k	1.95	1.75	1.59	1.39
853695	67WR200K	W	200k	.99	.89	.79	.65
853610	67WR1MEG	W	1M	1.25	1.09	.99	.89
769514	64X100	X	10	1.19	1.05	.95	.85
2195139	64XR50	X	50	1.19	1.05	.95	.85
853960	64X501	X	500	.99	.89	.79	.65
853855	67XR1K	X	1k	.99	.89	.79	.65
769549	64X2K	X	2k	.99	.89	.79	.65
853986	64X5K	X	5k	.99	.89	.79	.65
853871	67XR10K	X	10k	1.19	1.05	.95	.85
853951	64X203	X	20k	.99	.89	.79	.65
1967264	64X253	X	25k	1.19	1.05	.95	.85
854006	64X50K	X	50k	1.19	1.05	.95	.85
853898	64X100K	X	100k	1.19	1.05	.95	.85
769557	64X200K	X	200k	1.19	1.05	.95	.85
769565	64X254	X	250k	.99	.89	.79	.65
853919	64X105	X	1M	1.19	1.05	.95	.85
240338	64Y100	Y	10	1.19	1.05	.95	.85
240725	67YR100	Y	100	1.19	1.05	.95	.85
240733	67YR200	Y	200	.89	.79	.69	.55
240389	64Y501	Y	500	1.19	1.05	.95	.85
240750	3296Y-1-102LF	Y	1k	1.49	1.29	1.15	1.05
240769	8024EKY202✓	Y	2k	1.49	1.29	1.15	1.05
240777	3296Y-1-502VP	Y	5k	1.49	1.29	1.15	1.05
240427	3296Y-1-103VP	Y	10k	1.49	1.29	1.15	1.05
240426	3296Y-1-103LF	Y	10k	1.95	1.75	1.49	1.29
240434	64Y203	Y	20k	1.19	1.05	.95	.85
240813	67YR50K	Y	50k	1.49	1.29	1.15	1.05
769573	364Y200K	Y	200k	1.49	1.29	1.15	1.05
240493	64Y1MEG	Y	1M	1.19	1.05	.95	.85
1157026	64Z100	Z	10	1.09	.99	.89	.75
769637	64Z500R	Z	500	1.09	.99	.89	.75
854049	67ZR1K	Z	1k	1.19	1.05	.95	.85
854081	64Z5K	Z	5k	1.09	.99	.89	.75
854065	67ZR10K	Z	10k	1.19	1.05	.95	.85
769645	64Z504	Z	500k	1.19	1.05	.95	.85

P,X,Z: side adjustment; W&Y: top adjustment ✓ Mepco

Bourns® 3299, BI Tech 68,  
Murata 3102 Series

- 1/2W, 3/8" square,  
25-turn, ±10%  
85°C, 0 to 125°C

769741  
(X)  
\* Web Code: XGW



Part No.	Series	Type	Ohm	1	10	100	250
1157034	68PR100	P	100	\$1.25	\$1.09	\$.99	\$.89
2200794	68PR200	P	200	1.25	1.09	.99	.85
769670	68PR500	P	500	1.25	1.09	.99	.89
769653	68PR1K	P	1k	1.25	1.09	.99	.85
854145	68PR5K	P	5k	1.25	1.09	.99	.89
854102	68PR10K	P	10k	1.25	1.09	.99	.85
241066	68WR20	W	20	1.49	1.29	1.15	1.05
241074	68WR50	W	50	1.49	1.29	1.15	1.05
241082	68WR100	W	100	1.49	1.29	1.15	1.05
2195219	68WR200	W	200	1.25	1.09	.99	.89
241103	68WR500	W	500	1.25	1.09	.99	.89
241111	68WR1K	W	1k	1.49	1.29	1.15	1.05
854129	68WR2K	W	2k	1.49	1.29	1.15	1.05
241139	68WR5K	W	5k	1.49	1.29	1.15	1.05
183564	3299W-103YP	W	10k	1.49	1.29	1.15	1.05
238633	68WR20K	W	20k	1.25	1.09	.99	.89
241200	68WR50K	W	50k	1.25	1.09	.99	.89
241189	3299W-1-104VP	W	100k	1.49	1.29	1.15	1.05
854161	68WR200K	W	200k	1.25	1.09	.99	.89
241197	68WR250K	W	250k	1.49	1.29	1.15	1.05
241219	3299W-1-105LF	W	1M	1.49	1.29	1.15	1.05
769784	68XR500	X	500	1.49	1.29	1.15	1.05
854188	68XR1K	X	1k	1.49	1.29	1.15	1.05
854225	68XR2K	X	2k	1.49	1.29	1.15	1.05
854268	68XR5K	X	5k	1.25	1.09	.99	.85
854209	68XR10K	X	10k	1.49	1.29	1.15	1.09
1946501	68XR25K	X	25k	1.49	1.29	1.15	1.05
769792	68XR50K	X	50k	1.25	1.09	.99	.89
769741	68XR100K	X	100k	1.25	1.09	.99	.89
769733	68XR500K	X	500k	1.49	1.29	1.15	1.05
1946527	68XR2MEG	X	2M	1.49	1.29	1.15	1.05
240573	3299Y-1-102LF	Y	1k	2.49	2.25	1.95	1.75
240581	3299Y-1-202LF	Y	2k	1.95	1.75	1.59	1.39
240590	3299Y-1-502LF	Y	5k	2.49	2.25	1.95	1.75
240602	3299Y-1-103LF	Y	10k	2.49	2.25	1.95	1.75

P&X: side adjustment; W&Y: top adjustment

Bourns® 3352, BI Tech 91 Series

- 1/2 watt,  
3/8" round,  
single-turn, ±10%

\* Web Code: XGS



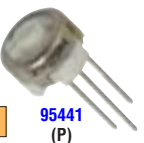
Part No.	Series	Type	Ohm	1	10	100	250
2195665	91AR10	T	10	\$1.25	\$1.15	\$1.05	\$.95
2200621	91AR20	T	20	1.25	1.15	1.05	.95
2035805	91AR50	T	50	1.25	1.15	1.05	.95
2195649	91AR200	T	200	1.25	1.15	1.05	.95
2195657	91AR2.5K	T	2.5k	1.25	1.15	1.05	.95
350351	91AR25K	T	25k	1.25	1.15	1.05	.95
2195673	91BR50	P	50	1.49	1.25	1.09	.99
770321	91BR200	P	200	1.25	1.15	1.05	.95
770339	91BR500	P	500	1.25	1.15	1.05	.95
2200612	91BR2K	P	2k	1.49	1.25	1.09	.99
2235372	91BR50K	P	50k	1.49	1.25	1.09	.99
2195729	91ER500	E	500	1.25	1.15	1.05	.95
2195681	91ER2K	E	2k	1.09	.99	.89	.75
2195702	91ER25K	E	25k	1.25	1.15	1.05	.95
2195711	91ER250K	E	250k	1.25	1.15	1.05	.95
2195753	91WR2K	W	2k	1.09	.99	.89	.75
770347	91WR10K	W	10k	1.49	1.25	1.09	.99
2195761	91WR20K	W	20k	1.49	1.25	1.09	.99
2195745	91WR100K	W	100k	1.49	1.25	1.09	.99
2195737	91WR1MEG	W	1M	1.25	1.15	1.05	.95

W: side adjustment; T,P&E: top adjustment

Bourns® 3329, Vishay/Spectrol 62-  
75, BI Tech 62, 82 Series

- 1/2 watt, 1/4" round,  
single-turn, ±10%  
• .14"H (3.5mm)

\* Web Code: XGZ



Part No.	Series	Type	Ohm	1	10	100	250
2195850	82PFR10*	H	10	\$.89	\$.79	\$.75	\$.59
2195286	82PFR20	H	20	.89	.79	.75	.59
1947626	62PR50*	H	50	.89	.79	.75	.59
770021	82PR100	H	100	.89	.79	.65	.55
854436	62PR200*	H	200	.89	.79	.65	.59
2179235	62-3-1/2-251	H	250	.89	.79	.65	.55
2180383	62PR500*	H	500	.89	.79	.65	.55
854356	62-3-1/2-102	H	1k	.89	.79	.65	.55
2179278	75H1K	H	1k	.89	.79	.65	.55
1157907	82PR1K	H	1k	.89	.79	.65	.55
1157931	62PR2K*	H	2k	1.49	1.25	1.15	1.09
854452	62-3-1/2-202	H	2k	1.25	1.09	.99	.89
2180391	3329H-1-202LF	H	2k	1.95	1.75	1.49	1.29
854532	62-3-1/2-502	H	5k	.89	.79	.65	.55
1157940	82PR5K	H	5k	.79	.69	.59	.49
1157915	62PR10K*	H	10k	1.75	1.59	1.39	1.29
2179286	75H10K	H	10k	.99	.89	.79	.69
854487	82PR20K	H	20k	.89	.79	.65	.55
2179260	62-3-1/2-253	H	25k	.89	.79	.65	.55
854567	62-3-1/2-503	H	50k	.89	.79	.65	.55
854399	82PR50K	H	50k	.79	.69	.59	.49
770030	62PR100K*	H	100k	.89	.79	.65	.55
2180404	75H100K	H	100k	.89	.79	.65	.55
770056	62PR200K*	H	200k	1.75	1.59	1.39	1.29
2133667	3329H-1-504LF	H	500k	1.95	1.75	1.49	1.29
254561	82MR20	P	20	.89	.79	.65	.55
854508	62-1-1/2-501	P	500	.79	.69	.59	.49
95441	3329P-1-102LF	P	1k	1.95	1.75	1.49	1.29
254502	82MR2K	P	2k	.79	.69	.59	.49
254511	62MR5K*	P	5k	1.49	1.25	1.15	1.09
96719	3329P-1-103LF	P	10k	1.95	1.75	1.49	1.29
254537	62MR20K*	P	20k	1.25	1.09	.99	.89
2179294	75P20K	P	20k	.89	.79	.65	.55
95484	82MR100K	P	100k	.89	.79	.65	.55
254570	62MR200K*	P	200k	1.09	.99	.89	.75
254538	62MR250K*	P	250k	1.49	1.25	1.15	1.09
254588	62MR500K*	P	500k	1.49	1.25	1.15	1.09
254596	62MR1MEG*	P	1M	1.49	1.25	1.15	1.09
770144	82PAR2K	W	2k	1.95	1.75	1.49	1.29
770136	82PAR10K	W	10k	1.25	1.09	.99	.89
770161	82PAR25K	W	25k	1.95	1.75	1.49	1.29
2180412	75T102	X	1k	1.95	1.75	1.49	1.25
2235196	3329X-1-502VP	X	5k	1.95	1.75	1.49	1.29
2235209	3329X-1-103VP	X	10k	1.95	1.75	1.49	1.29
2195278	82WR500-TR	WR	500	.89	.79	.65	.55
2195251	82WFR10K	WF	10k	.89	.79	.65	.55
2201851	82WFR100K	WF	100k	.89	.79	.65	.55
2195260	82WFR250K	WF	250k	.89	.79	.65	.55



# Cermet Trimmer & Precision Potentiometers

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## Cermet Trimmer Pots (Continued)

• Manufacturers are vary

Bourns® 3362, BI Tech 25 Series

\*Web Code: XGX

- 1/2 watt, 1/4" square, single-turn, ±10%
- 85°C, -55°C to +150°C temperature range

Part No.	Series	Type	Ohm	1	10	100	250
2194751	25WR201	H	200	\$.99	\$.89	\$.79	\$.69
2194742	25WR202	H	2k	....99	....89	....79	....69
770371	3362H-1-103VP	H	10k	....89	....79	....69	....59
2194777	25WR500K	H	500k	....79	....69	....59	....49
2194734	25WR105	H	1M	....99	....89	....79	....69
2194697	25VR101	M	100	....99	....89	....79	....69
2194700	25VR205	M	2M	....99	....89	....79	....69
770419	3362P-1-101LF	P	100	....89	....79	....69	....59
253982	3362P-1-102VP	P	1k	....89	....79	....69	....59



Part No.	Series	Type	Ohm	1	10	100	250
2201586	25PR202	P	2k	\$.99	\$.89	\$.79	\$.69
182829	3362P-1-502VP	P	5k	....89	....79	....69	....59
182837	3362P-1-103VP	P	10k	....89	....79	....69	....59
254002	3362P-1-203VP	P	20k	....99	....89	....79	....69
254028	3362P-1-503VP	P	50k	....99	....89	....79	....69
254036	3362P-1-104VP	P	100k	....99	....89	....79	....69
254044	3362P-1-504VP	P	500k	....99	....89	....79	....69
254115	3362P-1-105VP	P	1M	....99	....89	....79	....69

Part No.	Series	Type	Ohm	1	10	100	250
2194620	25RSR1K	S	1k	\$.99	\$.89	\$.79	\$.69
2194638	25RS2K	S	2k	1.09	.99	.89	.79
2194646	25SR20K	S	20k	....99	....89	....79	....69
770540	3362U-1-200	U	200	....99	....89	....79	....69
2133771	3362U-1-102VP	U	1k	....99	....89	....79	....69
2194689	25UR200K	U	200k	1.09	.99	.89	.79
2133780	3362U-1-105LF	U	1M	....99	....89	....79	....69
254204	3362W-1-103VP	W	10k	....99	....89	....79	....69
254211	25RXR20K	W	20k	....99	....89	....79	....69
254262	25RXR500K	W	500k	....75	....65	....55	....45
254166	25RXR501	W	1M	....99	....89	....79	....69
2194785	25XR500K	X	500k	....99	....89	....79	....69

H,P&U: top adjustment; M,S,W,X: side adjustment

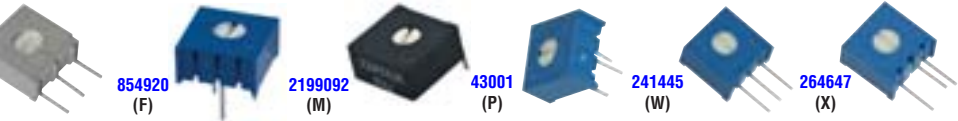
Bourns® 3386, Spectrol 63,

BI Tech 72, Clarostat 363, Murata 3104

\*Web Code: XGU

- 1/2 watt, 3/8" square, single-turn, ±10%
- 85°C, -55°C to +150°C temperature range

Part No.	Series	Type	Ohm	1	10	100	250
770646	72XWR50	B	50	\$.89	\$.79	\$.69	\$.59
854786	3386B-1-101LF	B	100	1.49	1.29	1.15	1.05
2180682	63V102	B	1k	1.09	.99	.89	.75
770638	72XWR2500	B	2.5k	....89	....79	....69	....59
854794	3386-1-502LF	B	5k	1.49	1.29	1.15	1.05
770620	72XWR10K	B	10k	1.49	1.29	1.15	1.05
2195243	72XWR50K	B	50k	1.25	1.09	.99	.89
2180666	63V104	B	100k	1.25	1.09	.99	.89
2037587	72XWR2MEG	B	2M	1.25	1.09	.99	.89
2180324	63S1K	C	1k	1.09	.99	.89	.75
2198962	72XLR5K	C	5k	1.09	.99	.89	.75
2180332	63S5K	C	5k	1.09	.99	.89	.75
2200997	72XLR10K	C	10k	1.09	.99	.89	.75
2198938	72XLR20K	C	20k	1.09	.99	.89	.75
2198954	72XLR25K	C	25k	....89	....79	....69	....59
2180341	63S25K	C	25k	1.25	1.09	.99	.89
2198989	72XLR50K	C	50k	1.09	.99	.89	.75
2198920	63S104	C	100k	1.09	.99	.89	.75
2198946	72XLR200K	C	200k	1.25	1.09	.99	.89
2198997	72XLR500K	C	500k	1.09	.99	.89	.75
2198911	72XLR1MEG	C	1M	1.25	1.09	.99	.89
854823	72PMR10	F	10	1.09	.99	.89	.65
2235217	3386F-1-102VP	F	1k	1.49	1.25	1.15	1.05
854989	72PMR2K	F	2k	1.25	1.09	.99	.89
855041	72PMR2500	F	2.5k	1.09	.99	.89	.69
2235225	3386F-1-103VP	F	10k	1.49	1.25	1.15	1.05
855105	72PMR50K	F	50k	1.09	.99	.89	.75
854920	72PMR100K	F	100k	....99	....89	....79	....65
855076	72PMR250K	F	250k	1.49	1.25	1.15	1.05
770726	363M500K	F	500k	1.09	.99	.89	.75
1947634	72PMR5MEG	F	5M	1.25	1.09	.99	.89
770785	72RXR500	H	500	1.09	.99	.89	.75
855130	72RXR1K	H	1k	1.09	.99	.89	.75
770769	72RXR2K	H	2k	1.25	1.09	.99	.89
770734	72RXR10K	H	10k	1.25	1.09	.99	.89
770777	3386H-1-203LF	H	20k	1.09	.99	.89	.75



Part No.	Series	Type	Ohm	1	10	100	250
770654	63M101	K	100	\$1.49	\$1.25	\$1.15	\$1.05
2180543	63M252	K	2.5k	1.49	1.25	1.09	1.05
855017	63M20K	K	20k	1.09	.99	.89	.69
2180535	63M25K	K	25k	1.49	1.25	1.09	.99
2180527	63M205	K	2M	1.49	1.25	1.09	.99
2199084	72RPXR500	M	500	1.49	1.25	1.09	.99
2199092	72RPXR1K	M	1k	1.49	1.25	1.09	.99
2199068	72RPXR5K	M	5k	1.49	1.25	1.09	.99
2199076	72RPXR5MEG	M	5M	1.25	1.09	.99	.89
254298	72PR10	P	10	1.09	.99	.89	.75
855316	72PR20	P	20	1.09	.99	.89	.75
254289	63P500	P	50	1.25	1.09	.99	.89
254297	63P101	P	100	1.25	1.09	.99	.89
254300	72PR200	P	200	1.09	.99	.89	.75
2200911	72PR250	P	250	1.09	.99	.89	.75
43123	63P501	P	500	1.09	.99	.89	.75
42964	3386P-1-102LF	P	1k	1.25	1.09	.99	.89
43043	63P202	P	2k	1.09	.99	.89	.75
43078	3104P-1-502	P	5k	1.25	1.09	.99	.89
2179307	63P5K(T640)	P	5k	1.25	1.09	.99	.89
2199121	72PTR5K	P	5k	1.25	1.09	.99	.89
43001	72PR10K	P	10k	1.25	1.09	.99	.89
2200639	72PSR10K	P	10k	1.09	.99	.89	.75
43051	72PR20K	P	20k	1.25	1.09	.99	.89
254377	63P25K	P	25k	1.25	1.09	.99	.89
43107	63P503	P	50k	1.25	1.09	.99	.89
43027	3386P-1-104LF	P	100k	1.25	1.09	.99	.89
254406	72PR200K	P	200k	1.09	.99	.89	.75
2200903	72PR250K	P	250k	1.09	.99	.89	.75
43060	3386P-1-304VP	P	300k	1.25	1.09	.99	.89
63212	63P504	P	500k	1.25	1.09	.99	.89
42981	E2A1MEG	P	1M	1.25	1.09	.99	.89
105216	63P205	P	2M	1.25	1.09	.99	.89
2199041	72PXR50	R	50	1.49	1.25	1.15	1.05
2199050	72PXR500	R	500	1.25	1.09	.99	.89

Part No.	Series	Type	Ohm	1	10	100	250
2199009	72PXR2K	R	2k	\$1.49	\$1.25	\$1.15	\$1.05
2199017	72PXR200K	R	200k	1.25	1.09	.99	.89
241411	72RXL500	S	500	1.49	1.25	1.15	.99
2200938	72RXWR750	S	750	1.49	1.25	1.15	.99
770911	72RXWR1K	S	1k	1.49	1.25	1.15	.99
770929	72RXWR2K	S	2k	1.49	1.25	1.15	.99
2038424	72RXWR5K	S	5k	1.49	1.25	1.15	.99
2200989	72RXWR10K	S	10k	1.49	1.25	1.15	.99
241461	72RXL20K	S	20k	1.49	1.25	1.15	.99
2195227	72PLR500	T	500	1.09	.99	.89	.75
2180316	63T203	T	20k	1.09	.99	.89	.75
770937	72PLR20K	T	20k	1.09	.99	.89	.75
2201084	72RWR10	W	10	1.49	1.25	1.15	.99
770961	72RWRFR2K	W	2k	1.25	1.09	.99	.89
241437	72RWR2K	W	2k	1.49	1.25	1.09	.99
241445	3386W-1-502VP	W	5k	1.25	1.09	.99	.89
2201009	72RWR50K	W	50k	1.25	1.09	.99	.89
241517	3386W-1-254LF	W	250k	1.49	1.25	1.15	.99
771067	63X500	X	500	....99	....89	....75	....65
771024	72XR100	X	100	....99	....89	....75	....59
264621	63X200R	X	200	....99	....89	....75	....65
2180658	63X251	X	250	....99	....89	....75	....65
771075	63X500	X	500	....99	....89	....75	....59
264647	72XR1K	X	1k	....99	....89	....79	....59
771041	72XR2K	X	2k	....99	....89	....75	....59
2200971	72XR5K	X	5k	....99	....89	....79	....59
855771	63X203	X	20k	....99	....89	....79	....59
264698	63X253	X	25k	....99	....89	....75	....65
264701	63X50K	X	50k	....99	....89	....79	....59
771059	63X204	X	200k	....99	....89	....79	....59
264735	63X254	X	250k	....99	....89	....75	....59
264743	363X500K	X	500k	....99	....89	....75	....59
771032	63X105	X	1M	....99	....89	....79	....59
264760	63X205	X	2M	....99	....89	....75	....65

\*F,K,M,P&T: top adj.; B,C,H,R,S,W&X: side adj. ↑With thumb knob

#Raised adjustment ††10-2M range ✓Allen-Bradley \$Long LDS

## Wirewound Precision Pots

\*Web Code: JBE

855818

- Shaft size: 0.5" L x 0.25" Dia.
- Solder lug panel mount



Part No.	Mfr.	Mfr. Part No.	Dia.	Ohms	Power Rating	Tol (%)	Turns	1	10
2201471	BI Tech	SX2082R50K-L1	1/2"	50k	1/2W @ 70°C	2	1	\$4.95	\$4.49
2201519	BI Tech	5127R1K-L50	7/8"	1k	1W @ 70°C	5	1	4.95	4.49
2198663	BI Tech	7276R500-L25	7/8"	500	2W @ 25°C	5	10	4.95	4.49
2198532	BI Tech	7223R1K-L05	7/8"	1k	2W @ 70°C	3	10	9.95	8.95

# Knobs, Fuse Holders, Clips & Blocks

JAMECO ValuePro

## Potentiometer and Instrumentation Knobs (1/8", 15/64", 1/4" & "D" Shaft Diameters)

\* Web Code: EBD



Part No.	Product No.	Shaft	Body	Pointer	Dia. x H"	Fig.	1	10	100
2229669	K86	1/8"	Alum	Alum	.39 x .95	1	\$ .89	\$ .79	\$ .69
2229677	TS70-2WL-1	1/8"	Black	White	.75 x .50	2	.89	.79	.69
2239120	JK-905C-3.2	1/8"	Black/blue	White	.57 x .60	3	1.09	.99	.89
290125	42008-1	1/8"	Aluminum	Black	.63 x .50	4	2.49	2.25	1.95
2229642	K66	1/8"	Black	Alum	.72 x .75	5	.89	.79	.69
2239111	JK-901D-3.2	1/8"	Black/alum	White	.78 x .47	6	.99	.89	.79
2239138	JK-906D-3.2	1/8"	Black	White	.95 x .60	7	1.35	1.19	1.09
2235778	KN1564†	15/64"	Black	Black	.73 x .50	15	.99	.89	.79
2229634	EWKN0B21*	1/4"	Black	White	.35 x .64	8	.89	.79	.69
2231291	MC256KN500	1/4"	Black	White	.50 x .62	3	1.49	1.25	1.09
265261	CR-MS-5-T18*	1/4"	Gray	Gray	.51 x .68	9	.69	.59	.49
265228	CR-MS-1-T18*	1/4"	Gray	Red	.51 x .68	9	.69	.59	.49
136241	GKB-214	1/4"	Black/alum	White	.54 x .52	5	1.25	1.09	.99
162481	K5-1/4S	1/4"	Chrome	Silver	.56 x .50	10	1.75	1.49	1.25
265077	JK-905C	1/4"	Black/blue	White	.57 x .58	3	.99	.89	.79
265084	JK-905D	1/4"	Black/green	White	.57 x .58	3	.99	.89	.79
265051	JK-905A	1/4"	Black/red	White	.57 x .58	3	.99	.89	.79
265069	JK-905B	1/4"	Black/yellow	White	.57 x .58	3	.99	.89	.79
265122	JK-906	1/4"	Black	White	.61 x .58	7	1.25	1.09	.99

\* For use with 1/4" knurled shaft † For rotary switches

Part No.	Product No.	Shaft	Body	Pointer	Dia. x H"	Fig.	1	10	100
138482	KN031	1/4"	Aluminum	Black	.65 x .61	11	\$2.49	\$2.25	\$1.95
138502	KN032	1/4"	Aluminum	Black	.70 x .87	11	2.65	2.39	2.15
2228543	JK-902D	1/4"	Black	White	.75 x .42	2	1.09	.99	.89
104176	JK-902C	1/4"	Black	White	.75 x .49	2	1.09	.99	.89
265033	JK-904C	1/4"	Black/blue	White	.78 x .47	12	.99	.89	.79
265018	JK-904A	1/4"	Black/red	White	.78 x .47	12	.99	.89	.79
264990	JK-901D	1/4"	Black/alum	White	.78 x .47	6	.99	.89	.79
202287	CP-Z1-M-S	1/4"	Black/alum	White	.80 x .60	13	1.09	.99	.89
138393	41108-1	1/4"	Black/alum	White	.85 x .56	5	1.49	1.29	1.09
265009	JK-902B	1/4"	Black	White	.95 x .60	2	1.09	.99	.89
264955	JK-901C	1/4"	Black/alum	White	1.06 x .61	6	1.09	.99	.89
264892	RN-113A	1/4"	Black/alum	Numeric	1.15 x .70	14	1.09	.99	.89
102788	JK-903C	1/4"	Black	White	1.25 x .54	15	.99	.89	.75
264946	JK-901B	1/4"	Black/alum	White	1.29 x .64	6	1.25	1.09	.99
264998	JK-902A	1/4"	Black	White	1.31 x .69	2	1.09	.99	.89
264912	RN-114A	1/4"	Black/alum	Numeric	1.46 x .58	14	.99	.89	.79
264883	RN-112A	1/4"	Black/alum	Numeric	1.46 x .90	14	1.09	.99	.89
2158143	RN-12POS\$	1/4"	Black/alum	Numeric	1.50 x .70	14	.69	.59	.49
2236041	450-3102GR	D	Black/alum	White	.78 x .62	16	.99	.89	.79
2236113	450-2401	D	Black/alum	White	.78 x .68	13	.99	.89	.79

\$ Plastic flange

JAMECO ValuePro

Bussmann

Littelfuse

## Fuse Holders & Clips

### Screw Driver Slot Fuse Holders

- Terminal • D-style • UL/CSA
- 102832: Panel mount; 2235946: Snap in

Part No.	Mfr. Part No.	Type	Current	Size (L" x Dia.)	1	10	100
102832	EFS609	5 x 20mm	10A @ 250VAC	1.4 x 0.6	\$1.95	\$1.75	\$1.59
2236148	441-R344B	5 x 20mm	15A @ 250VAC	2.14 x .52	1.95	1.75	1.59
2235946	441-R355	1 1/4" x 1/4"	20A @ 250VAC	2.3 x .65	1.95	1.75	1.49
2231654	03453LS2H	1 1/4" x 1/4"	20A @ 250VAC	1.7 x 0.6	2.49	2.25	1.75

### 5mm x 20mm Printed Circuit Board Fuse Holder

- Current: 16A @ 500VAC • PC mount

Part No.	Mfr.	Type	Size	Lead Spacing	1	10	100
2228797	Schurter	5 x 20mm	2.4"L x .66"W x .75"H	.55"	\$5.95	\$5.35	\$4.79

### 1 1/4" x 1/4" Standard In-Line Fuse Holders

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center

Part No.	Mfr.	AWG	Wire Lengths	Body Length	Color (Body/Wire)	1	10	100
109322	ValuePro	22	3.5/3"	2.4"	Black/Red	\$ .79	\$ .75	\$ .69
102868	ValuePro	20	3/3"	2.2"	White/Red	.89	.79	.69
2221448	ValuePro	20	6/6"	1.6"	White/Red	.89	.79	.69
151918	ValuePro	18	6/6"	2.4"	White/Red	1.19	1.09	.95
108784	ValuePro	16	21/26"	2.2"	Black/Orange	1.49	1.35	1.19
1708959	Littelfuse*	14	8" loop	2.2"	Black/Red	2.35	2.09	1.89
108792	ValuePro	14	19/25"	2.5"	Black/Red	1.95	1.75	1.59

\* Supplied with two springs to accommodate different SFE sized fuses

Littelfuse

## Fuse Holders

\* Web Code: UEA

1712608

### Omni-Blok® Molded Base Fuse Block

- Dielectric strength: 1500V min. • Clip/terminals: tin plated spring brass

Part No.	Mfr. Part No.	Description	Current Rating	1	10	100
1711947	354800-GY	Solder terminal, 3AG	20A, 300V	\$ .99	\$ .89	\$ .79
1712608	520101	PC mount, 5x20mm	10A, 300V	.99	.89	.79

OPTIFUSE

## Fuse Blocks

\* Web Code: OFB

Part No.	Mfr. Part No.	Description (Rating)	1	10	100
2136243	BLC-20A	Single, snap-together block for multi-pole applications (125VAC, 15A) (250VAC, 10A)			
2136251	BLC-20C	Single, snap-together block for multi-pole applications (125VAC, 8A) (250VAC, 8A)			
2136294	BLR-I-301	1-pos. w/ snap-in mount (124VDC, 30A), cover included†			
2136278	BLR-I-306	6-pos. w/ snap-in mount (30A per circuit, 100A max input), cover included†			

† LED indicator and 1/4" quick connect terminals

NEW MARKED IN PINK

\* Web Code: UEA

### 5mm x 20mm Mini Thumbscrew Panel Mount Fuse Holders

- Straight solder terminal • Size: 1.5"L x 0.6"Dia.

Part No.	Mfr.	Curr. (A @ VAC)	Mounting Hole	1	10	100
150464	ValuePro	6 @ 250	.50"Dia. x .43"Flat	\$1.09	\$ .99	\$ .89
102825	ValuePro	10 @ 250	.50"Dia.	1.25	1.09	.95

### 1 1/4" x 1/4" Standard Thumbscrew Panel Mount Fuse Holders

- Straight solder terminal • 250VAC

Part No.	Mfr.	Amp	Size (L x Dia.)	Mounting Hole	1	10	100
120994	ValuePro	10A	1.95" x .71"	.58"Dia. (Double D-style)	\$1.09	\$ .99	\$ .85
18703	ValuePro	10A	2.05" x .71"	.58"Dia. x .52"Flat (D-style)	1.95	1.75	1.59
2235882	Eagle Plastics	15A	2.28" x .53"	.54"Dia. x .59"Flat (D-style)	1.95	1.75	1.59
2179649	Bussman	15A	2.64" x .79"	.51"Dia. x .47"Flat (D-style)	1.95	1.75	1.59
2215582	Bussman*	15A	3.28" x .81"	.63"Dia. x .57" (Octagon)	3.49	2.95	2.75
1711681	Littelfuse	20A	2.02" x .68"	.51"Dia. x .48" (D-style)	2.29	2.09	1.89

\* Illuminates when fuse fails

### Low Profile PCB-Mount Fuse Clips

- 1. For GMA/GMD fuses 2. For 3AGC/MDL/AG fuses

- Low contact resistance • Withstands shock/vibration

Part No.	Description	For Use With†	Size (H" x W" x D" x P")	1	10	100	500
202860	5mm, front leads	1	.37 x .25 x .21 x .19	\$ .15	\$ .13	\$ .09	
2099438	1/4", side leads	2	.42 x .25 x .20 x .21	.10	.09	.08	
102842	1/4", front leads (10A)	2	.32 x .27 x .25 x .23	.19	.15	.11	

Fuji Electric

## 20A Earth Leakage Circuit Protector

- 100-240VAC @ 50/60Hz 1000A, 20A
- 4 terminal line/load connection • On-Trip-Off flip switch
- Rated current: 20A • Rated sensitive current: 10mA

Part No.	Mfr. Part No.	Size (L" x W" x D")	1	10
2192798	EC2A2-020NZR	2.8 x 1.2 x 1.6	\$1.95	\$1.75

3 LEVELS OF SAVINGS  
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# Fuses, Oscillators & Crystals

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## 5mm x 20mm Fast Acting Fuse Kit

- Glass cartridge, silver-end caps
- Voltage rating: 250VAC
- IEC127/BS4265/CEE4 spec.
- 100 pieces: 10 ea. of 0.1A, 0.2A, 0.5A, 1A, 1.6A, 2A, 2.5A, 3A, 4A and 5A



Part No.	Mfr. Part No.	1	10	100
645343	K/FF	\$13.95	\$12.95	\$12.49

## JAMECO ValuePro Fuses

### 5mm x 20mm Mini Fast Acting GMA Fuses (250V)

- Recommended for new designs \* Order in multiples of 10

Part No.	Mfr.	Cross Ref.	Amps	1	10	100
103887	JVP	GMA-250mA	.25A	\$.29	\$.25	\$.22
102041	JVP	GMA-500mA	.5A	\$.29	\$.25	\$.22
103908	JVP	GMA-1	1A	\$.29	\$.25	\$.22
103916	JVP	GMA-2	2A	\$.29	\$.25	\$.22
103924	JVP	GMA-3	3A	\$.29	\$.25	\$.22
103932	JVP	GMA-5	5A	\$.29	\$.25	\$.22
2161668	OPT	FSC-10A	10A	\$.59	\$.55	\$.49
2161676	OPT	FSC-15A	15A	\$.59	\$.55	\$.49
2159664	ADT	GMA-16	16A	*	\$.22	\$.17

### 1 1/4" x 1/4" Standard Fast Acting (250V) AGC/3AG Fuses

Part No.	Mfr.	Cross Ref.	Amps	1	10	100
69404	JVP	AGC-250mA	.25A	\$.29	\$.25	\$.22
10410	JVP	AGC-0.5	.5A	\$.35	\$.29	\$.25
10373	JVP	AGC-1	1A	\$.35	\$.29	\$.25
2205472	BSM	AGC-1-1/4	1.25A	\$.25	\$.19	\$.15
10382	JVP	AGC-2	2A	\$.35	\$.29	\$.25
69439	JVP	AGC-3R	3A	\$.35	\$.29	\$.25
197544	JVP	AGC-4	4A	\$.35	\$.29	\$.25
10402	JVP	AGC-5	5A	\$.35	\$.29	\$.25
69462	JVP	AGC-10	10A	\$.35	\$.29	\$.25
186301	JVP	AGC-16	16A	\$.45	\$.35	\$.29

### 5mm x 20mm Mini Slow Blow GMD Fuses (250V)

Part No.	Mfr.	Cross Ref.	Amps	1	10	100
197502	OPT	GMD-500mA	.5A	\$.39	\$.35	\$.29
2129836	BEL	5ST(P)630	.63A	\$.39	\$.35	\$.29
103827	BSM	GMC-1A*	1A	\$.25	\$.19	\$.15
197465	JVP	GMD-1	1A	\$.39	\$.35	\$.29
197472	JVP	GMD-2	2A	\$.39	\$.35	\$.29
197482	JVP	GMD-3.15	3.15A	\$.39	\$.35	\$.29
197500	JVP	GMD-5	5A	\$.39	\$.35	\$.29

\* Medium time delay type

### 1 1/4" x 1/4" Standard Slow Blow MDL/3AG Fuses (250V)

Part No.	Mfr.	Cross Ref.	Amps	1	10	100
653319	LTL	0313.125HXP	.125A	\$1.59	\$1.49	\$1.35
25655	JVP	MDL-1/4	.25A	\$.59	\$.55	\$.49
25639	JVP	MDL-1	1A	\$.59	\$.55	\$.49
25646	JVP	MDL-2	2A	\$.59	\$.55	\$.49
69535	JVP	MDL-3	3A	\$.49	\$.45	\$.39
25672	JVP	MDL-5	5A	\$.59	\$.55	\$.49
653589	LTL	313008HXP	8A	1.49	1.35	1.19
69570	JVP	MDL-10	10A	\$.59	\$.55	\$.49

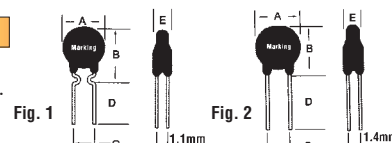
\* Automotive Blade Fuses — Enter Web Code ATF

## EGE Resettable Fuses

\* Web Code: SBF

Polymer Positive Temperature Coefficient (PPTC) fuses improve product quality performance and are resettable.

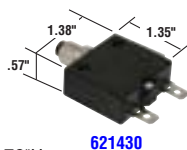
- Rated voltage: (V<sub>MAX</sub>): 60V
- Max. current: (I<sub>MAX</sub>): 40A
- Lead length (D): 7.6mm min.
- Thickness (E): 3.1mm max.



Part No.	Mfr. P/N	Hold Curr. (I <sub>H</sub> , A)	Trip Curr. (I <sub>T</sub> , A)	Fig.	A	B	C	E	Pricing		
199874	RA050-60	0.50	1.00	1	7.9	13.7	5.1	3.1	1	10	100
199912	RA110-60	1.10	2.20	2	13.0	18.0	5.1	3.1	.59	.55	.49
199938	RA160-60	1.60	3.20	2	16.3	21.3	5.1	3.1	.69	.65	.59

## GC Circuit Breakers

- Quick connect style terminals (.25")
- Actuator: black plastic button
- Mounting hole: 0.450"
- Current rated for 125/250VAC/32VDC
- P/N 2186013: 1.1"L x .51"W x .79"H



621430

Includes: Nut, knurled nut, ID plate

\* Web Code: LCF

Part No.	Mfr. P/N	Curr. Rating (A@VAC)	1	10	100
621376	35-2105#	5 @ 125/250	\$5.49	\$4.95	\$4.49
2173061	W58-XB1A4A-10	10 @ 125/250	2.95	2.59	2.25
621430	35-2115#	15 @ 125/250	3.49	3.15	2.89
2186013	SS-001*	15 @ 125	3.95	3.59	3.29
612470	W28-XQ1A-20†	20 @ 250	2.49	2.25	1.95

\* Rocker switch style (snap-in), Reset/Off mark

† Rocker switch style (snap-in), 0.6" mounting hole

# Additional hardware (hex and knurled nut (2), P/N 2227250)

## JAMECO ValuePro TTL Oscillators

- Frequency stability: ±100ppm
- Operating temperature: 0°C to 70°C
- Output load TTL: 10 TTL max.
- Machine tooled 4 pins

Full Can

Half Can



### Full Can

- Input volt.: +5VDC ±0.5VDC
- Most fit into a 14-pos. DIP socket
- P/N 133006, below right

Pin #	Function
1	N/C
7	GND
8	Output
14	+5VVs

\* Web Code: XAD

Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing		
27861	1.0	7mA	15ns	\$1.95	\$1.79	\$1.59
27879	1.8432	7mA	15ns	1.95	1.79	1.59
27924	2.0	7mA	15ns	1.49	1.35	1.19
27967	4.0	7mA	10ns	1.95	1.79	1.59
27991	8.0	15mA	15ns	1.49	1.35	1.19
27887	10.0	15mA	10ns	1.49	1.35	1.19
27932	20.0	17mA	10ns	.75	.59	.39
27941	32.0	18mA	7ns	.49	.39	.29

### Half Can

- Input voltage: +3.3VDC ±10%
- Most fit into a 8-pos. DIP socket
- P/N 676385, above right

Pin #	Function
1	N/C
4	GND
5	Output
8	+3.3VVs

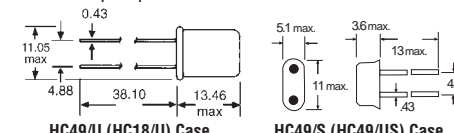
\* Web Code: MAM

Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing		
102779	10.0	30mA	6ns	\$1.19	\$1.09	\$0.99

## JAMECO ValuePro Crystals

\* Web Code: EAU

- Frequency calibration tolerance: ±50ppm @ 25°C
- Freq. stability tolerance: ±50ppm from -10° to +60°C
- Operating temperature: -10°C to +60°C
- Shunt cap.: 7pF max.
- Drive level: 4.0mW max.



### HC49/U (HC18/U) Case

Part No.	Frequency (MHz)	Impedance	1	10	100
102613	1.8432	18pF	\$.79	\$.69	\$.59
14533	3.579545	18pF	.49	.39	.35
14592	4.0	20pF	.49	.39	.35
324364	4.0	Series	.69	.59	.49
14728	8.0	Series	.59	.55	.49
14381	10.0	Series	.59	.49	.39
14402	12.0	Series	.49	.39	.35
14453	16.0	Series	.59	.55	.49
14517	20.0	Series	.49	.39	.35

### HC49/US Low Profile Case

Part No.	Frequency (MHz)	Impedance	1	10	100
324962	4.0	20pF	\$.59	\$.55	\$.49
324929	5.0	20pF	.59	.55	.49
325139	16.0	20pF	.59	.55	.49
325068	20.00	20pF	.59	.55	.49
325024	24.0	20pF	.59	.55	.49

### HC49/S Low Profile Case

- ±5ppm/year max.
- Drive level: 0.5mW (fundamental frequency)

Part No.	Frequency (MHz)	Impedance	1	10	100
137832	4.0	17pF	\$.49	\$.35	\$.29
137859	8.0	Series	.59	.49	.45
137875	11.0592	Series	.49	.35	.29
137891	16.0	Series	.49	.35	.29

## JAMECO ValuePro Crystal Oscillator Sockets

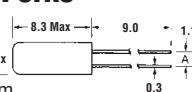
- Can be PCB-mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins



Part No.	Description	1	10	100
676385	8-pos. socket for half can	\$.59	\$.49	\$.39
133006	14-pos. socket for full can	.65	.55	.45

## JAMECO ValuePro Tuning Forks

- Op. temp.: -10°C to +60°C
- Frequency: 32.768kHz
- Drive level: 1mW
- Frequency tolerance: ±50ppm
- Aging for first year: ±3ppm (max. +25°C)



Part No.	Comparable to:	Imped.	1	10	100
14584	CY32.76	10.5pF	\$.59	\$.55	\$.49
325244	JVP-325243	12.5pF	.49	.45	.39

\* ADT = Arndt Electronics | BEL = BeL Fuse | BSM = Bussmann | JVP = Jameco ValuePro | LTL = Littelfuse | OPT = Optifuse | SCH = Schurter



# Hook-Up Wire & Paired Cable

JAMECO ValuePro

## UL1007 & UL1569 Rated Stranded Hook-Up Wire

★ Web Code: JAS

- Applications: Interconnection circuits, wiring of computer and data processing equipment, automotive and applications
- Additional colors available online
- 300V peak
- PVC insulation
- Stranded
- Sold in 100' rolls
- VW-1
- Temp. range: -40°C to 80°C (UL1007); -40°C to 105°C (UL1569)
- Tin-plated copper
- Additional lengths available online

Appliance Wiring Material (AWM) is a UL recognized covering of insulated wire & cable intended for internal wiring of appliances & equipment.



AWG	Stranding	UL1007	UL1569	Length	Black P/N	Red P/N	White P/N	Green P/N	Yellow P/N	Blue P/N	Brown P/N	Orange P/N	Violet P/N	Gray P/N	1	5
28	7 x 36	x	x	100	734611	734603	734610	734606	734605	734614	2184878	2184886	2184894	2184907	\$5.95	\$5.39
26	7 x 34	x	x	100	734511	734503	734510	734506	734505	734514	2184798	2184801	2184819	2184827	6.95	6.25
24	7 x 32	x	x	100	734411	734403	734410	734406	734405	734414	2171831	2171840	2171858	2171866	7.95	6.95
22	7 x 30	x	x	100	126085	126034	126077	310852	310878	310886	2184991	2185002	2185011	2185029	8.95	7.95
22	7 x 30	x	x	100	734311	734303	734310	734306	734305	734314	2138071	2138089	2138097	2138100	9.95	8.95
20	10 x 30	x	x	100	125840	125795	125831	310894	310915	310922	—	2185045	—	2185061	11.95	10.95
20	10 x 30	x	x	100	734211	734203	734210	734206	734205	734214	2171874	2171882	2171891	—	12.95	11.95
18	16 x 30	x	x	100	125787	125736	125752	310932	310949	310958	—	2185088	—	—	14.95	13.49
18	16 x 30	x	x	100	734111	734103	734110	734106	734105	734114	2171911	2171920	2171938	2171946	15.95	14.49
16	26 x 30	x	x	100	734011	734003	734010	734006	734005	734014	2184835	2184843	2184851	2184860	17.95	15.95

JAMECO ValuePro

## Solid Hook-Up Wire – 22 AWG

★ Web Code: PAF

- Temperature range: -55°C to +105°C
- Passes UL VW-1 flame test
- For use with breadboards such as the JE20 series, pg 128
- Additional colors available online

Length	Black P/N	Blue P/N	Green P/N	Red P/N	White P/N	Yellow P/N	1	5	10
25'	2152876	2152884	2152892	2152905	2153553	2152921	\$3.49	\$3.25	\$2.95
100'	36792	36768	36822	36856	36881	36920	7.95	6.95	5.95
1000'	36805	36776	36840	36864	36899	36928	59.95	54.95	49.95

## 1/4-Lb. Nichrome Resistance Wire

- 60% nickel, 16% chromium, 24% iron
- Excellent resistance characteristics
- Temperature: to 1800°F (982°C)
- 24 AWG
- Nominal O.D.: 0.0201"

JAMECO ValuePro

★ Web Code: ZOR

Part No.	Length (ft.)	Ω/Ft. @ 68°F	1	5
2119419	205	1.671	\$14.95	\$13.95

JAMECO ValuePro

## Stranded & Solid Hook-Up Wire & Kits

- Solid: 105°C, tinned copper, MIL-W-16878/1, type B
- Stranded: 80°C, tin plated, UL1007
- Passes UL VW-1 flame test

★ Web Code: PAF

Part No.	AWG	Strands	Voltage	Wire Length	Colors†	1	5
2130917	24#	7x32	60V	0-1=32', 2-9=16'	0-9	\$12.49	\$10.95
2207751	24#	Solid	60V	0-1=32', 2-9=16'	0-9	12.49	10.95
2187876	24	7x32	300V	0-1=32', 2-9=16'	0-9	11.95	10.95
2206264	22*	7x30	300V	25'	0-5	16.95	15.95
2206272	22*	7x30	300V	100'	0-5	39.95	35.95
2206601	22	7x30	300V	500	0	26.95	23.95
2206627	22	7x30	300V	500	1	26.95	23.95
2154871	22	Solid	300V	100	7	7.95	6.95
2153705	22*	Solid	600V	25'	0-5	15.95	14.95
2159189	22	Solid	600V	100'	0-5	36.95	33.95
2183752	22*	Solid	600V	100'	0-5	39.95	35.95
2180050	20	10x30	300V	1000	0	59.95	56.95
2180113	20	10x30	300V	1000	1	59.95	56.95
2180092	20	10x30	300V	1000	9	59.95	56.95
2205026	20	Solid	300V	100	0	9.95	8.95
2205042	20	Solid	300V	100	1	9.95	8.95
2206281	18*	16x30	300V	25'	0-5	24.95	21.95

† 0=Black, 1=Red, 2=White, 3=Green, 4=Yellow, 5=Blue, 6=Brown, 7=Orange, 8=Violet, 9=Gray

\* Includes dispenser box # Mfr.: Velleman

JAMECO ValuePro

## Bus Bar Hook-Up Wire

★ Web Code: QCS

### Tinned Copper

- Solid soft drawn annealed tinned copper
- Approvals: ASTM-B-3, QQ-W-343-Type-S
- Sold in 100' reels
- Single conductor
- No insulation

Part No.	Gauge	O.D. (in.)	Amps	1	5	25
2098478	24 AWG	0.020	5	\$7.95	\$7.25	\$6.49
2119339	24 AWG*	0.020	—	9.95	8.95	7.95
2098486	22 AWG	0.025	7	8.95	7.95	7.25
2098494	20 AWG	0.032	8.5	10.95	9.95	8.95
2098507	18 AWG	0.040	16	15.95	14.49	12.95
2098515	16 AWG	0.061	19	18.95	16.95	15.49

\* Bare copper, 205 ft. (1/4 lbs.)

## Kynar™ Wire-Wrap Wire – 30 AWG

★ Web Code: NAC

- Polyvinylidene fluoride insulation
- Silver plated copper (solid conductor)
- Temperature: -40°C to +125°C
- Wire wrap tools, pg 121
- Used for prototyping
- UL 1423
- Passes UL VW-1 flame test
- See pg 10 for sockets

100 Foot Reel		Pricing	
Part No.	Color	1	5
22542	Blue	\$11.95	\$10.95
22577	Black	11.95	10.95
22631	Red	11.95	10.95
22665	White	11.95	10.95
22606	Green	11.95	10.95
22700	Yellow	11.95	10.95

1000 Foot Reel		Pricing	
Part No.	Color	1	5
22551	Blue	\$64.95	\$59.95
22585	Black	64.95	59.95
22649	Red	64.95	59.95
22673	White	64.95	59.95
22614	Green	64.95	59.95
22702	Yellow	64.95	59.95

JAMECO ValuePro

## 1/4-Lb. Magnet Wire

★ Web Code: MGT

- Solid bare copper conductor
- Polyurethane/polyamide (nylon) insulation
- Solderable @ 806°F/430°C (14-24 AWG), 680°F/360°C (25-40 AWG)

Excellent Windability!

Part No.	Gauge	Nom. O.D	Length (ft.)	Temp. Range	1	5	25
2119363	30 AWG	.0109"	825	-30° – 155°C	\$10.95	\$9.95	\$8.95
2119355	28 AWG	.0136"	520	-30° – 155°C	9.49	8.49	7.59
2119347	26 AWG	.0169"	328	-30° – 155°C	8.95	7.95	7.25
2098419	24 AWG	.0213"	205	-30° – 130°C	8.49	7.49	6.79
2098401	22 AWG	.0265"	129	-30° – 130°C	7.95	6.95	6.25
2098398	20 AWG	.0334"	81	-30° – 130°C	7.49	6.75	5.95
2098380	18 AWG	.0418"	51	-30° – 130°C	7.25	6.49	5.79
2098371	16 AWG	.0524"	32	-30° – 130°C	6.95	6.25	5.49

JAMECO ValuePro

## Twisted Paired Cable – 24 AWG

- PVC insulation
- Use for hook-up wire
- Stranded tinned wire (7 x 32)
- Reduced EMI
- 80°C
- 300 V

★ Web Code: EBC

100 Foot Reel		Pricing	
Part No.	Color	1	5
173164	Black/white	\$9.95	\$9.49
105912	Green/white	9.95	9.49
173148	Red/white	11.95	10.95

1000 Foot Reel		Pricing	
Part No.	Color	1	5
173172	Black/white	\$84.95	\$79.95
105807	Green/white	89.95	81.95
173156	Red/white	99.95	94.95

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Coaxial, Multi-Conductor, Paired & Speaker Cable

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## Coaxial Cable

Common Coax Cables:

RG-#/U (RG = Radio Grade; U = Universal)

RG-58: Radio communication, amateur radio, 50Ω

RG-174: Wi-Fi pigtailed, more flexible but higher loss than RG-58, 50Ω

- Color: black
- PVC jacket
- Polyethylene insulated

Part No.	Mfr.	Product No.	Fig.	Length	AWG	Type	Nom. Imp (Ω)	Bare Copper	Braid Shield	Pricing	
										1	5
644754	JVP	RG58/U-100	1	100' Reel	20 Solid	RG58/U	50	0.015"	38	\$26.95	\$24.95
644818	JVP	RG174/U-100	2	100' Reel	26 Stranded	RG174/U	50	0.020"	98	19.95	17.95
644826	JVP	RG174/U-1000	2	1000' Reel	26 Stranded	RG174/U	50	0.020"	98	164.95	149.95

\* Web Code: CLC



Fig. 1



Fig. 2



## Multi-Conductor Cable

\* Web Code: MCC

Part No.	Mfr.	Product No.	Fig.	AWG (stranded)	# of Cond.	Length	Jacket (Color/Material)	Wire Color	Insul.	Nom. O.D.	Pricing	
											1	5
2234901	BDN	8442 06025	1	22 <sup>1</sup>	2	25' Unreel	Chrome/PVC	Black, Red	A	0.170"	\$14.95	\$13.95
732996	BDN	8442 060100	1	22 <sup>1</sup>	2	100' Reel	Chrome/PVC	Black, Red	A	0.170"	39.95	37.95
733008	BDN	8442 060500	1	22 <sup>1</sup>	2	500' Reel	Chrome/PVC	Black, Red	A	0.170"	169.95	159.95
733024	BDN	8443 060100	2	22 <sup>1</sup>	3	100' Reel	Chrome/PVC	Black, Red, Green	A	0.172"	55.95	49.95
733032	BDN	8443 060500	2	22 <sup>1</sup>	3	500' Reel	Chrome/PVC	Black, Red, Green	A	0.172"	229.95	219.95
733059	BDN	8444 060100	3	22 <sup>1</sup>	4	100' Reel	Chrome/PVC	Black, Red, White, Green	A	0.185"	64.95	61.95
733067	BDN	8444 060500	3	22 <sup>1</sup>	4	500' Reel	Chrome/PVC	Black, Red, White, Green	A	0.185"	279.95	259.95
2119494	JVP	5411-100	4	22 <sup>1</sup>	5	100' Reel	Gray/PVC	Blk, Red, Wh, Grn, Brn	A	0.190"	44.95	42.95
2119558	JVP	5578-100	5	18/20 drain wire <sup>2</sup>	3	100' Reel	Chrome/PVC	Black, Red, White	B	0.230"	49.95	44.95
2119531	JVP	5576-100	5	22/22 drain wire <sup>2</sup>	3	100' Reel	Gray/PVC	Black, Red, White	B	0.190"	29.95	28.49
644383	JVP	SC4-25	6	24 drain wire <sup>2</sup>	4	25' Reel	Gray/PVC	Multi-Colored	A	0.200"	9.95	8.95
644391	JVP	SC4-100	6	24 drain wire <sup>2</sup>	4	100' Reel	Gray/PVC	Multi-Colored	A	0.200"	26.95	24.49
644404	JVP	SC4-1000	6	24 drain wire <sup>2</sup>	4	1000' Reel	Gray/PVC	Multi-Colored	A	0.200"	219.95	199.95
644412	JVP	SC-925	6	24 drain wire <sup>2</sup>	9	25' Unreel	Gray/PVC	Multi-Colored	A	0.230"	13.95	12.49
644421	JVP	SC9-100	6	24 drain wire <sup>2</sup>	9	100' Reel	Gray/PVC	Multi-Colored	A	0.230"	44.95	39.95
644447	JVP	SC15-25	6	24 drain wire <sup>2</sup>	15	25' Unreel	Gray/PVC	Multi-Colored	A	0.280"	19.95	17.95
644455	JVP	SC15-100	6	24 drain wire <sup>2</sup>	15	100' Reel	Gray/PVC	Multi-Colored	A	0.280"	59.95	53.95
644471	JVP	SC25-25	6	24 drain wire <sup>2</sup>	25	25' Unreel	Gray/PVC	Multi-Colored	A	0.370"	29.95	26.95
644480	JVP	SC25-100	6	24 drain wire <sup>2</sup>	25	100' Reel	Gray/PVC	Multi-Colored	A	0.370"	99.95	89.95



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

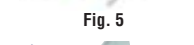


Fig. 6

- 1 = Unshielded  
2 = 100 Aluminum/  
Mylar Shield 100%  
A = PVC B = Polyethylene  
Blk = Black Brn = Brown  
Grn = Green Wh = White



## Paired Cable

\* Web Code: HCS

Part No.	Mfr.	Product No.	Fig.	AWG/Drain Wire	# of Pairs	Length	Jacket (Color/Material)	Wire Color	Insul.	Pricing	
										1	5
2119515	JVP	5574-100	1	18 / 24	1	100' Reel	Chrome/PVC	Black/White	A	\$39.95	\$35.95
733112	BDN	8451 010100	2	22 / 22	1	100' Reel	Black/PVC	Black/Red	B	29.95	28.49
734063	BDN	8451 010U500	2	22 / 22	1	500' Unreel	Black/PVC	Black/Red	B	129.95	124.95
2234898	BDN	8723 06025	3	22 / 24	2	25' Unreel	Chrom/PVC	Black/Red, Green/White	B	19.95	18.95
734180	BDN	8723 060100	3	22 / 24	2	100' Reel	Chrome/PVC	Black/Red, Green/White	B	64.95	59.95
734184	BDN	8723 060U500	3	22 / 24	2	500' Unreel	Chrome/PVC	Black/Red, Green/White	B	279.95	259.95



Fig. 1



Fig. 2

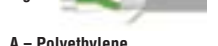


Fig. 3

- A = Polyethylene  
B = Polypropylene



## 2-Conductor Power/ Speaker Cable

\* Web Code: VAL

- Black wire has white polarity stripe
- Temp. rating: 20°C to 60°C
- Stranded copper wire (7 x 32)
- Operating voltage: 300V
- 24 AWG
- White wire has textured jacket for polarity

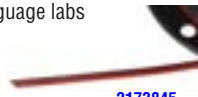


Part No.	Cross Ref. No.	Color	Length	1	5	10
100280	CAR45B-100	Black	100'	\$9.95	\$8.95	\$7.95
100299	CAR45B-1K	Black	1000'	69.95	62.95	56.95
2208391	CAR45W-1K	White	1000'	59.95	53.95	48.95



## Zip Automotive Speaker Cable

- Good for automotive or language labs
- High definition, low loss
- Red/black color coded PVC
- Voltage: 300VAC, 60VDC
- Annealed stranded bare copper wire (16 x 30)



Part No.	AWG	Strands	Length	1	5
2206299	18	16 x 30	25' ....	\$10.95	\$9.95
2173845	18	16 x 30	100' ....	29.95	27.95

\* BDN = Belden | JVP = Jameco ValuePro



## Modular Telephone Cable – 28 AWG

- Color coded conductors
- Flat modular cable
- PVC jacket
- 7 x 43 stranded
- 6 conductors
- Color: gray



\* Web Code: LCG

Part No.	Cross Ref. No.	Length	1	5	10
644691	300-860SL-100	100 ....	\$9.95	\$9.49	\$8.95
644703	300-860SL-1000	1000 ...	89.95	81.95	73.95

\* Web Code: UBF



## ALL YOUR POWER CORD NEEDS

2 & 3 Conductor Fan, Pigtail, Detachable & Hospital Grade Power Cords at Industry Low Prices! See Page 102 for Complete Selection.



# Flat Ribbon, Modular Plugs, Cable & Accessories



## 28 AWG (7 x 36) Gray and Multicolor Flat Ribbon Cable

### Gray Cable

- Insulation: polyvinyl chloride (PVC)
- Single edge red stripe for pin 1 orientation
- Center spacing: 0.05"



\*Web Code: WBX

Part No.	Conductors	Length	1	5	25
643794	10	10'	\$2.95	\$2.65	\$2.39
643815	10	100' reel	22.95	20.95	18.95
643831	16	10'	4.95	4.49	3.95
643858	16	100' reel	39.95	35.95	31.95
643874	20	10'	5.95	5.49	4.95
643891	20	100' reel	44.95	39.95	35.95
643962	26	10'	8.49	7.49	6.75
643989	26	100' reel	59.95	53.95	48.95
644121	40	25'	29.95	26.95	23.95
644130	40	100' reel	79.95	69.95	62.95
644172	50	100' reel	99.95	89.95	79.95
644199	60	10'	5.95	5.39	4.79

### Multicolor Cable

- Standard 10-color repeat sequence
- Voltage rating: 300V
- Center spacing: 0.05"
- Stranded copper wire
- Temperature rating: -20°C to +80°C



\*Web Code: WCF

Part No.	Conductors	Length	1	5	25
639672	10	10'	\$5.95	\$5.49	\$4.95
643508	10	25'	12.95	11.49	10.49
643516	10	100' reel	39.95	35.95	32.49
643532	16	10'	7.95	6.95	6.25
643559	16	100' reel	69.95	62.95	56.95
643575	20	10'	10.95	9.95	8.95
643583	20	25'	21.95	19.95	17.95
643591	20	100' reel	74.95	67.49	59.95
643639	25	100' reel	89.95	79.95	74.95
643698	40	10'	26.95	23.95	21.95



## Bulk Category 5e Network Cable

\*Web Code: KCG



### 24 AWG UTP Category 5e Enhanced – 350MHz (Non-Plenum)

- Color: blue
- Stranded

Part No.	Cross Ref. No.	Length	1	5
2230889	10X5-804TH-25	25'	\$5.95	\$5.39
2230897	10X5-804TH-50	50'	9.95	8.95
644615	10X5-804TH-100	100'	16.95	15.95
644623	10X5-804TH-1000	1000'	129.95	119.95

See page 53 for IDC Connectors



## Cat 5e Network Crossover Cable

\*Web Code: CAE

### Category 5e – 350MHz

- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded
- UTP
- Strain relief RJ45 connectors
- 4-pair
- 8P8C

Part No.	Length	Color	1	10	100
302041	7 ft.	Gray	\$2.95	\$2.59	\$2.29



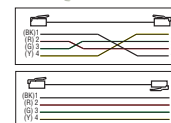
## Modular Telephone/Printer Sharing Cable (Gray)

\*Web Code: EBF

- RJ9 – 4P4C for handset or network
- RJ12/RJ25 – 6P6C for telephone or printer sharing
- RJ14 – 6P4C for two line telephone

Style 1 – Reverse wiring for telephone systems

Style 2 – Straight wiring for networking/printer sharing



## Ethernet Network Cable Assemblies

\*Web Code: CAE

### Category 5e

- 8P8C
- 4 pair
- Unshielded Twisted Pair (UTP)
- 350 MHz
- "Snagless" boot
- 24 AWG (7 x 43) stranded
- T568B color coded for easy wire tracing

Part No.	Length	Color	1	10	100
168292	3 ft.	Gray	\$1.49	\$1.25	\$0.99
2258494	7 ft.	Gray	2.75	2.49	2.25
201697	3 ft.	Black	1.75	1.59	1.39
201700	7 ft.	Black	2.49	2.25	1.95
201718	15 ft.	Black	3.95	3.55	2.95
201726	25 ft.	Black	6.49	5.95	5.49
201734	3 ft.	Blue	1.75	1.59	1.39

Part No.	Length	Color	1	10	100
1945381	5 ft.	Blue	\$1.95	\$1.75	\$1.65
2138708	7 ft.*	Blue	.99	.89	.75
201742	7 ft.	Blue	2.75	2.49	2.25
201751	15 ft.	Blue	3.95	3.55	2.95
201814	3 ft.	Yellow	1.75	1.59	1.39
201822	7 ft.	Yellow	2.75	2.49	2.25

\*Without "Snagless" boot

\*Web Code: BBK

Part No.	Length	Color	1	10	100
219707	3 ft.	Gray	\$2.25	\$1.95	\$1.75
219918	7 ft.	Red	3.25	2.95	2.49



## Modular Plugs



\*Web Code: FBB

- P = No. of positions
- C = No. of contacts
- Unshielded except P/N 116611



Part No.	Mfr.	Description	Size (L" x W" x H")	UL	1	10	100	500
103491	Steren	4P4C (RJ9) for flat oval handset wire	.49 x .30 x .26	None	*	\$1.19	\$1.15	\$1.12
79290	Adam Tech	6P4C (RJ14) for round stranded wire	.49 x .38 x .26	UL94V-0	*	.15	.12	.09
79273	Steren	6P6C (RJ12) for flat stranded wire	.49 x .38 x .26	None	.29	.25	.22	.19
79281	Steren	8P8C (RJ45) for flat stranded wire	.85 x .46 x .31	None	.45	.39	.35	.29
119343	Steren	8P8C (RJ45) for round solid wire	.85 x .46 x .31	None	.45	.39	.35	.29
116611	ValuePro	8P8C (RJ45) for round solid wire*	.87 x .46 x .33	UL94V-0	.89	.79	.69	.59
180646	ValuePro	10P10C (RJ50) for round stranded/solid	.85 x .46 x .31	None	.59	.49	.39	.35

\*Shielded

## RS-232-to-Registered Modular Datacom Adapters

\*Web Code: RDR

Simplify networking applications when changing your RS-232 port to an RJ11, RJ12 or RJ45 modular jack.

Includes: All necessary hardware and wiring

Part No.	Mfr.	Description	1	10	100
66191	JVP	DB9 M to RJ45 (8P8C)	\$1.95	\$1.75	\$1.49
614977	GCE	DB9 M to RJ45 (8P8C)	1.75	1.49	1.39
2129596	SIG	DB9 M to RJ45 (8P8C)†	2.95	2.59	2.29
614985	GCE	DB9 F to RJ11 (6P4C)	1.95	1.75	1.49

†1 ft. cable

Part No.	Mfr.	Description	1	10	100
66203	JVP	DB9 F to RJ12 (6P6C)	\$2.49	\$2.25	\$1.95
66212	JVP	DB9 F to RJ45 (8P8C)	2.25	1.95	1.75
2235840	ADT	DB25 F to RJ12 (6P6C)	1.95	1.79	1.59
66237	STR	DB25 M to RJ45 (8P8C)	2.25	1.95	1.49
66254	JVP	DB25 F to RJ45 (8P8C)	1.75	1.49	1.25

\* ADT = Arndt Electronics | GCE = GC Electronics | JVP = Jameco ValuePro | SIG = SIIG, Inc. | STR = Steren



## RJ45-Plug Color Cap (Boot)



- Round strain relief
- Order in multiples of 10

\*Web Code: JBG

Part No.	Color	10	100	500	1000
204410	Black	\$1.19	\$1.17	\$1.15	\$1.12

## 17" Self-Grip/Hook & Loop Straps

- Wrap around anything and sticks to itself for fast, easy bundling
- Bundle cords, cables, wires, pipes, tubing and trees (landscaping)
- Eliminates plastic tie wraps and hardware
- Reusable
- Size: 17"L x 1/2"W (cut to your length)
- 12 pieces in pack



Part No.	Description	1	10	20
2125325	Self-grip/wrap velcro	\$5.95	\$5.39	\$4.95

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)



# Modular Jacks, Couplers, Cable Ties & Accessories

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY



JAMECO ValuePro

## Modular Jacks

\*Web Code: NEL



Part No.	Mfr.	Description	Panel Mnt.	Size (L" x W" x H")	1	10	100
115128	JVP	4P4C (N/A) side entry, std. latch, no panel stops, for handset	No	.51 x .40 x .57	\$.45	\$.39	\$.35
2211151	JVP	6P4C (N/A) top entry, std. latch, no panel stops, for handset, 14" leads	No	.54 x .59 x .72	.49	.45	.39
151766	JVP	6P4C (RJ14) side entry, standard latch, panel stops	Yes	.80 x .52 x .59	.65	.59	.55
2209692	ADM	6P4C (RJ14) side entry, standard latch, panel stops, 6" leads	Yes	.54 x .59 x .72	.49	.45	.39
124039	JVP	6P6C (RJ25) top entry, standard latch, panel stops, 6" leads	Yes	.54 x .59 x .72	1.25	1.09	.99
115837	JVP	6P6C (RJ25) side entry, standard latch, panel stops	Yes	.51 x .48 x .57	.85	.75	.65
2234791	TCY	6P6C (RJ25) side entry, standard latch, no panel stops, LP	Yes	.72 x .53 x .50	.79	.69	.59
115844	ADM	8P8C (RJ45) side entry, standard latch, no panel stops	No	.52 x .62 x .58	.79	.69	.59
2150395	ADM	8P8C (RJ45) side entry, standard latch, panel stops	Yes	.51 x .57 x .59	.69	.59	.49
524461	TCY	8P8C (RJ45) side entry, standard latch, no panel stops, LP	Yes	.72 x .61 x .50	.89	.79	.69
2078258	TCY	8P8C (RJ45) side entry, standard latch, no panel stops, LP	No	.71 x .60 x .46	.39	.29	.25
2209713	ADM	8P8C (RJ45) side entry, standard latch, panel stops	Yes	.70 x .63 x .50	.49	.45	.39

JAMECO ValuePro

## 3" to 13" Nylon Cable Ties

### Standard

- Cable ties made from UL approved Nylon 66
- Temp. range: -40°C to +85°C
- Flammability rating: UL 94V-2
- Color: natural

70561



\*Web Code: QAV

Order in multiples of 100

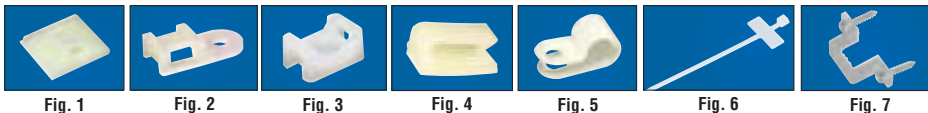
Part No.	Size (L" x W")	Tensile Strength	100	1000
70561	3.0 x 0.10	18 lbs.	\$.06	\$.05
126544	4.0 x 0.10	18 lbs.	.05	.04
70907	6.0 x 0.14	40 lbs.	.07	.06
2227313	6.6 x 0.18	50 lbs.	.08	.05
139150	8.0 x 0.10	18 lbs.	.09	.07
182669	8.0 x 0.13	18 lbs.	.10	.08
182685	8.0 x 0.18	18 lbs.	.13	.10
190756	10.0 x 0.14	40 lbs.	.13	.10
190764	13.0 x 0.14	40 lbs.	.19	.15

**USB Cables & Products**  
see pages 133 & 134

JAMECO ValuePro

## Cable Tie Mounts & Cable Clamps

- Tie mount and screw tab cable clamps
- Material: UL approved nylon 66, 94V-2



Part No.	Cross Ref. No.	Fig.	Description	10	100	1000
171214	HC-100	1	4-way cable tie mount, self-adhesive, use w/ 0.1"W max., 0.5" square	\$.16	\$.14	\$.13
182942	0505HC-101S	1	4-way cable tie mount, self-adhesive, use w/ 0.2"W max. ties, 0.75" square	.19	.16	.15
71408	HC-101	1	4-way cable tie mount, self-adhesive, use w/ 0.1"W max. ties, 0.9" square	.25	.19	.16
71395	HC-102	1	4-way cable tie mount, self-adhesive, use w/ 0.2"W max. ties, 1.1" square	.23	.20	.18
71386	HC-103	1	2-way cable tie mount, self-adhesive, use w/ 0.2"W max. ties, 1.1" square	.19	.17	.15
70595	HC-0	2	4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W	.19	.17	.15
173761	HC-1	3	Cable tie mount, saddle type, 0.14" screw hole, 0.6"L x 0.4"W, use w/ 0.2"W max. ties	.12	.11	.10
182301	0510HC-2	3	Cable tie mount, saddle type, 0.14" screw hole, 0.9"L x 0.6"W, use w/ 0.35"W max. ties	.17	.15	.14
182334	0520FC-1	4	Cable tie mount, self-adhesive, 0.5"L x 0.4"W, use w/ 0.3"W max. ties	.19	.16	.15
173729	UC0.5	5	Cable clamp for 3/16" cable, white nylon. 0.73"L x 0.38"W x 0.29"H	.12	.09	.06
173737	UC1	5	Cable clamp for 1/4" cable, white nylon. 0.78"L x 0.4"W x 0.36"H	.12	.10	.09
2215591	CC-11-16	5	Cable clamp for 11/16" cable, black nylon. 1.44"L x 0.5"W x 0.85"H	.12	.09	.07
71062	MCV-100R	6	Cable ID tie (3 7/8"L x 0.1"W) with tab (.98"W x .31"H)	.15	.11	.09
2233271	RC-FMB000-000	7	Cable mount for 1/2" cables, clear plastic, 4-40 x 5/8" screws included	.25	.22	.19

\* ADM = Adam Tech | JVP = Jameco ValuePro | TCY = TE Connectivity



## Modular Couplers



W: 1.5"  
H: 0.9"  
D: 0.7"



\*Web Code: XAH

Straight wiring for networking/printer sharing

Part No.	Description	1	10	100
135087	6P6C modular coupler, RJ12	\$1.09	\$.99	\$.89
135079	8P8C modular coupler, (for CAT5) RJ45	1.39	1.25	1.15



## 5 & 8-Port Industrial Unmanaged Ethernet Switches

- Auto MDI/MDI-X crossover for plug-and-play
- DIN rail mountable
- IEEE 802.3, 802.3u, 802.3x
- Supports 10/100Mbps auto negotiation
- LED indicators for power, 10/100M, Link/Act
- Operating power: 10-30VDC
- Operation temp.: -30°C to +75°C
- ESD protection: 8kV contact, 15kV air-gap discharge
- Dedicated 1024 unicast MAC address
- Full & half duplex backpressure flow control
- Memory bandwidth: 1.4 Gbps

NEW MARKED IN PINK

2129019



Part No.	Mfr. Part No.	Description	1	5
2129019	NS-205	5-port switch ...	\$99.95	\$89.95
2129051	MCJ-88	8-port switch ...	179.95	159.95



## Modular Jack Box

- Size: 2.0" x 2.2"H x 0.9"D
- Color: beige

\*Web Code: UAM

Part No.	Description	1	10	100
71984	6P6C adhesive jack RJ12	\$.99	\$.89	\$.79

JAMECO ValuePro

## Keystone-Type RJ45 Jacks

- Modular punchdown type
- CAT 5e classification
- Punchdown type wiring connections with color coding
- Size: 0.57"W x 1.23"D x 0.63"H

\*Web Code: MBV

212944

Part No.	Description	Color	1	10
212951	8P8C (RJ45)	Blue	\$.195	\$.175
212944	8P8C (RJ45)	White	2.49	2.25

JAMECO BenchPro

## Universal Cable Tie Tool

- 0.1" - 0.19" width cable ties
- Tension adjustable
- Spring return action • Metal



Part No.	Cross Ref. No.	1	5	10
182298	0302TG-7	\$21.95	\$19.95	\$17.95

## Round-Type Strain Relief Bushing

- UL approved nylon 66, 94V-2
- Used extensively for protecting cords and to prolong cord life

JAMECO ValuePro



Part No.	Cable Type	Length (in.)	10	100	1000
182351	SV/SJT, 16 AWG	.58	\$.14	\$.12	\$.10

# Braided Sleeves, Heat Shrink Tubing & Heat Guns

## TECHFLEX® Black FLEXO® Braided Sleeves ★ Web Code: ECO

- Cut and abrasion resistant
- Maintains properties across wide temperature range
- Flexo® Clean-Cut Braided – UV Resistant
- Dense braid structure provides fuller coverage
- Fray resistant when cut w/ scissors

Part No.	Mfr. Part No.	Length	Min/Max Flex (in.)	Inside Dia. (in.)	Outside Dia. (in.)	1	5
162157	CCP0.25BK25	25 ft.	5/32 – 7/16	0.250	0.440	\$14.95	\$12.95
162165	CCP0.50BK25	25 ft.	1/4 – 3/4	0.500	0.750	16.95	14.95

## Flexo® PET Braided – UV Resistant

- Braided from 10 mil polyethylene terephthalate (PET) monofilament yarns
- UL recognized component
- Conforms to FMVSS 302
- High tensile strength

Part No.	Mfr. P/N	Length	Min/Max Flex (in.)	Inside Dia. (in.)	Outside Dia. (in.)	1	5
693679	PTN0.25BK25	25 ft.	1/8 – 7/16	0.250	0.440	\$8.95	\$7.95
695383	PTN0.50BK25	25 ft.	1/4 – 3/4	0.500	0.550	11.95	10.75

## JAMECO ValuePro Flat & Tubular Tinned Copper Braids

These braids are used for shielding cables and ground straps, and as a protective braid covering for hoses and tubes.

- Woven wire construction
- 100 ft. spools
- 95% minimum shield coverage
- QQ-W-343 & ASTM B-33 compliant

Part No.	Description	1	5	25
2124189	Flat 1/4" nominal width x .03" flat, 168 x 36 strand, approx. 14 AWG	\$49.95	\$47.49	\$44.95
2124162	Tubular 3/8" nominal ID, 384 x 36 strand, approx. 10 AWG	89.95	79.95	74.95

## Sumitomo Electric Heat Shrink Solder Termination Sleeve

- High performance transparent heat-shrinkable outer sleeve
- Fluxed solder preform with thermochromics indicator paint
- Pre-installed 6", 20 AWG ground lead/braid

Part No.	Mfr. Part No.	Description	1	10	100	250	500
2217887	H-ML-4-94	Heat shrink solder termination sleeve	\$ .69	\$ .59	\$ .49	\$ .39	\$ .35

## 3M JAMECO ValuePro Heat Shrink Tubing Kits

A selection of heat shrink tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. Rated for 275°F (135°C). Shrink temp around 194°F. 2:1 shrink ratio.

Part No.	Mfr.	Description	Total Pcs.	Piece Length	Tube Diameter	Pricing
2196641	Velleman	Black polyolefin, 2:1	40	4.72"	1/16" 1/8" 3/16" 1/4" 3/8" 1/2" 3/4" 1"	\$3.95 \$3.59
285481	3M	Black polyolefin, 2:1	102	6"	1/16" 1/8" 3/16" 1/4" 3/8" 1/2" 3/4" 1"	69.95 64.95
2095963	ValuePro	Black polyolefin, 2:1	154	4"	1/16" 1/8" 3/16" 1/4" 3/8" 1/2" 3/4" 1"	17.95 15.95
2205771	Velleman	5 color, flame retardant	170	3.9"	1/16" 1/8" 3/16" 1/4" 3/8" 1/2" 3/4" 1"	8.95 7.95
645976	3M	7 colors	133	6"	1/16" 1/8" 3/16" 1/4" 3/8" 1/2" 3/4" 1"	69.95 64.95
2095947	ValuePro	7 colors	154	4"	1/16" 1/8" 3/16" 1/4" 3/8" 1/2" 3/4" 1"	19.95 17.95

## NTE® Heat Guns

Heat guns are ideally suited for drying, heating, welding, shrinking, soldering, desoldering and many other applications where heat is required.

- 2117413: • Fast and easy use
- Built-in bracket
- Weight: 1.1 lbs.

★ Web Code: QAJ

Part No.	Mfr.	Product No.	Description	Watts	Heat Setting (°F)	Temp. (°F max.)	1	5
2244480	BenchPro	866B	Industrial heat gun	1800	140-1112	1112	\$19.95	\$18.95
2232796	BenchPro	TT79001	Compact heat gun for light duty	350	494-575	575	17.95	15.95
2117413	NTE	HG300-D	Mini heat gun, 2 speeds/temps	350	482-662	662	24.95	22.49
254925	BenchPro	1001A	Economical heat gun	1200	600 & 1000	1000	42.95	39.95
2007062	BenchPro	1004	Accessory kit for 254925	—	—	—	11.95	10.95

## JAMECO ValuePro Polyolefin Round Heat Shrink Tubing

### FIT221/FIT221B Series

Use for insulation and repair, wire and cable harnessing/bundling, cable and connector protection.

- Operating temp: -55°C to 135°C
- Approx. shrink ratio: 2:1 @ 121°C
- Dielectric strength: 500V/mil (197kV/cm)

### Clear (4-foot pieces) – Round

★ Web Code: HST

Part No.	Mfr. Part No.	Before/After ID (in.)	1	10	100
419119	FIT221-3/64	.046/.023	\$ .99	\$ .79	\$ .69
419135	FIT221-1/16	.063/.031	1.09	.89	.75
419231	FIT221-3/8	.375/.187	1.95	1.69	1.49
419258	FIT221-1/2	.500/.250	1.95	1.69	1.49
419274	FIT221-3/4	.750/.375	2.49	2.25	1.95
2113682	TT-72801	1.00/.500	3.49	2.95	2.69

### Black (4-foot pieces) – Round

419101	FIT221B-3/64	.046/.023	\$ .89	\$ .79	\$ .69
419127	FIT221B-1/16	.063/.031	.99	.85	.75
419143	FIT221B-3/32	.093/.046	.99	.85	.75
419160	FIT221B-1/8	.125/.062	1.05	.89	.79
419186	FIT221B-3/16	.187/.093	1.29	1.15	.99
419207	FIT221B-1/4	.250/.125	1.49	1.39	1.29
419223	FIT221B-3/8	.375/.187	1.75	1.49	1.35
419240	FIT221B-1/2	.500/.250	2.19	1.95	1.75
2192721	ESP200-3/4	.750/.375	2.89	2.49	2.25
2230731	ATUM-24/6-D-STK††	.945/.236	7.95	6.95	5.95
2258751	HML-1-1/2†	1.50/.512	6.95	6.25	5.59

† 3:1 shrink ratio †† 4:1 shrink ratio

## Round Black Heat Shrink Tubing

- 2:1 uniform shrink ratio (approx.)
- Shrink temp.: 125°C
- VW-1 rated
- UL/CSA

### Polyolefin Tubing – Flat

Part No.	Dia. Before (mm)	Length (ft.)	1	10
2220251	0.09" (2.4)	100	\$19.95	\$17.95
644834	0.12" (3)	10	2.49	2.25
644851	0.12" (3)	100	14.95	13.49
644869	0.16" (4)	10	2.75	2.49
644877	0.16" (4)	100	16.95	14.95
644914	0.20" (5)	100	19.95	17.95
644931	0.24" (6)	10	3.49	3.15
644949	0.24" (6)	100	24.95	21.95
2243997	0.29" (7.3)	4	.75	.59
2243989	0.29" (7.3)	10	1.95	1.75
2243971	0.29" (7.3)	100	5.95	5.49
2158371	0.29" (7.3)	164	19.95	17.95
644957	0.31" (8)	10	3.95	3.59
644990	0.62" (15.9)*	10	6.95	6.25
2179796	1.00" (25)*	100	29.95	26.95

\* Flat

### Round Black Polyolefin Flexible Tubing

- Dielectric strength: 1300V
- Temp. range: -45°C to +125°C
- Flame retardant VW-1
- Precut 39" length (1 meter)

Part No.	Dia. Before (mm)	1	10	100
71871	.079" (2.0)	\$ .99	\$ .85	\$ .69
72063	.197" (5.0)	1.49	1.25	1.09

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Audio Plugs, Jacks, Adapters & HDMI Cables

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Switchcraft

JAMECO ValuePro

## Stereo, Phone, Audio Plugs & Jacks

\*Web Code: **AJS**

Part No.	Mfr.	Product No.	Fig.	Description	Dimensions (mm)	1	10	100
101152	ValuePro	PJ1035	1	3.5mm mono audio plug, plastic	53.0L x 3.9 ID*	\$ .99	\$ .85	\$ .69
231176	ValuePro	AP340	2	3.5mm TRS stereo audio plug, plastic	53.0L x 4.12 ID*	1.19	.99	.85
2200954	ValuePro	JR1037	3	3.5mm TRRS audio plug, 4-position, plastic	47.8L x 4.5 ID*	2.29	1.95	1.75
231160	ValuePro	PJ1035	4	3.5mm mono audio plug, metal	43.7L x 4.27 ID*	1.49	1.25	.99
231167	ValuePro	AP343	4	3.5mm stereo audio plug, metal	52.4L x 4.25 ID*	1.75	1.49	1.25
281754	Switchcraft	250	5	1/4" mono phone audio plug, plastic	73.7L x 7.6 ID*	4.95	4.49	3.95
2246733	ValuePro	25198	4	1/4" mono phone plug, metal, spring relief	77.0L x 7.0 ID*	2.49	2.25	1.95
281789	Switchcraft	297	6	1/4" stereo phone audio plug, metal	73.7L x 7.6 ID*	4.95	4.49	3.95
229921	ValuePro	JR1625BLK	7	RCA plug, plastic, black (5 pk)	51.5L x 5.0 ID*	1.95	1.75	1.49
229930	ValuePro	JR1625	8	RCA plug, plastic, red (5 pk)	51.5L x 5.0 ID*	1.95	1.75	1.49
2202933	Arndt	M1001	9	3.5mm mono (F) to 3.5mm stereo (M) adapter	37.3L x 3.5 ID*	.59	.39	.29
2236017	Kobiconn	174AD3132	9	3.5mm stereo jack to 3.5mm mono plug	14.0L x 11.0 ID*	.79	.69	.59
2236121	Kobiconn	171-AD32D31	10	3.5mm stereo plug to 2 ea. 3.5mm mono jack	40.0L x 5.1 ID*	1.39	1.19	.99
2201607	ValuePro	PJ31640 <sup>2</sup>	11	3.5mm audio jack, 4-pos., panel mount	16.4L x 8.0 Dia.	1.95	1.75	1.49
2095437	ValuePro	J355W <sup>1</sup>	12	3.5mm stereo audio jack, panel mt., terminal	17.6L x 8.4W x 10.1H	1.29	1.15	.99
281834	Switchcraft	415	13	3.5mm audio jack, panel mount, terminal	7.8L x 5.9 Dia.	3.49	3.19	2.79
1766180	Switchcraft	35RACP4BHN2	14	3.5mm stereo jack, rt. angle horiz., non-threaded	15.0L x 12.0W x 5.0H	1.49	1.29	1.09
568392	ValuePro	35RACP4BH3 <sup>1</sup>	14	3.5mm stereo jack, rt. angle horiz., threaded	8.0L x 11.0W x 6.0H	1.35	1.19	1.05
2081334	Shogyo	354-3PY	14	3.5mm mono jack, rt. angle horiz., non-threaded	12.0L x 11.9W x 6.1H	.79	.69	.59
2100291	ValuePro	354-PY (CT) <sup>1</sup>	15	3.5mm mono jack, rt. angle horiz., threaded	14.5L x 11.7W x 6.5H	.89	.79	.69
2168131	Adam Tech	ASJ	16	3.5mm stereo jack, rt. angle horiz., non-threaded	4.0L x 12.0W x 6.0H	1.09	.89	.75
2272655	Hosiden	JPJ2022	16	3.5mm stereo jack, rt. angle horiz., non-threaded	12.1L x 11.0W x 13.0H	1.49	1.25	1.09
2168149	Adam Tech	ASJ-5-3	17	3.5mm stereo jack, rt. angle ver., non-threaded, PCB	14.0L x 8.1W x 12.3H	.99	.85	.75
1766121	Switchcraft	35RACP2AV <sup>1</sup>	17	3.5mm mono jack, rt. angle ver., threaded	14.0L x 7.7W x 11.6H	.95	.85	.75
2161553	ValuePro	PJ-3064AM <sup>1</sup>	17	3.5mm stereo jack, rt. angle ver., threaded	14.0L x 8.1W x 12.3H	1.39	1.19	.99
2234206	LKG Ind.	70-534B	18	3.5mm stereo jack, threaded inside	19.0L x 11.0 ID*	1.95	1.75	1.59
2178110	Pomona	1297	19	BNC female to 1/4" male 2-pos. phone plug	63.5L	13.95	13.49	12.95
2235858	Kobiconn	161-3155E	20	3.5mm stereo jack, R/A horiz. shield non-threaded	14.7L x 9.7W x 12.7H	.55	.45	.35
2246784	Adafruit	1801	21	3.5mm stereo audio jack, in-line, metal, spring relief	48.5L x 4.3 ID*	2.25	2.09	1.95
2246776	Adafruit	1804	21	1/4" stereo audio jack, in-line, metal, spring relief	78.0L x 7.0 ID*	2.95	2.79	2.65
2161490	ValuePro	JR-1804 <sup>3</sup>	22	1/4" mono phone audio jack, 2-pos., single open	12.8L x 9.1 Dia.	.99	.89	.75
281738	Switchcraft	114	22	1/4" mono phone audio jack, 2-pos., single open	12.8L x 9.1 Dia.	2.95	2.59	2.29
281746	Switchcraft	12B <sup>4</sup>	23	1/4" stereo phone audio jack, 3-pos., double open	14.7L x 9.1 Dia.	2.95	2.59	2.29
2235962	Kobiconn	161-0086	24	1/4" TS and mono phone jack, 7 conductors	39.0L x 16.9W x 16.8H	1.59	1.45	1.29
1774016	Switchcraft	M112BX <sup>4</sup>	24	1/4" mono phone jack, 3 cond. plastic bushing	19.9L x 15.7W x 15.7H	1.79	1.65	1.49
2178646	Switchcraft	MNS112B <sup>4</sup>	24	1/4" mono phone jack, 3 cond, plastic bushing	19.9L x 15.7W x 15.7H	2.25	1.95	1.75
297537	Switchcraft	N111 <sup>4</sup>	24	1/4" mono phone jack, 2 conn.	19.8L x 15.6W x 15.6H	1.95	1.75	1.49
1774913	Switchcraft	RN111PC	25	1/4" mono phone jack, right angle, PCB	15.9L x 32.5W x 17.2H	1.95	1.75	1.49
220581	ValuePro	KY-006-1(W)	26	RCA jack, PCB mount, white, metal	12.2L x 14.2W x 11.2H	.69	.59	.49
220556	ValuePro	KY-006-1(R)	26	RCA jack, PCB mount, red, metal	12.2L x 14.2W x 11.2H	.69	.59	.49
220572	ValuePro	KY-006-1(B)	26	RCA jack, PCB mount, black, metal	12.2L x 14.2W x 11.2H	.69	.59	.49
220564	ValuePro	KY-006-1(Y)	26	RCA jack, PCB mount, yellow, metal	12.2L x 14.2W x 11.2H	.69	.59	.49
2076359	ValuePro	AJ842G3	27	RCA jack, PCB mount, rt. angle, red/white/yellow (3)	21.6L x 22.9W x 40.6H	.99	.89	.79
319249	Velleman	CA066	28	RCA jack, 2 pair stereo, panel mount, red/white	24.9L x 12.2W x 73.7H	.49	.45	.39
159485	ValuePro	CS7021-DN-BLK-R <sup>5</sup>	29	RCA jack, panel mount, black	21.3W x 9.7H	1.19	1.05	.95
172340	ValuePro	CS7021-DN-RD-R <sup>5</sup>	29	RCA jack, panel mount, red	21.3W x 9.7H	1.09	.95	.85
2123469	GC/Waldom	33-1404	30	Speaker terminal board, 4-pos., pushbutton	31.8L x 25.4W x 76.2H	1.49	1.39	1.19
2236050	Kobiconn	151-CJ9021	31	Speaker terminal block 2-pos., 1R, PC	39.4W x 25.6D x 26.0H	1.95	1.75	1.49
2236068	Kobiconn	151-CJ9007	32	Speaker terminal block 4-pos., 2R, PC	40.3W x 18.8D x 38.0H	1.49	1.29	1.15
2236164	Kobiconn	151-CJ9020	31	Speaker terminal block 4-pos., 1R, PC	63.7W x 26.0D x 26.0H	1.39	1.29	1.25
2236076	Kobiconn	151-CJ9031	32	Speaker terminal block 8-pos., 2R, PC	64.0W x 21.0D x 38.0H	1.95	1.75	1.49
2236084	Kobiconn	151-CJ9019	32	Speaker terminal block 8-pos., 2R, PC	64.0W x 25.0D x 41.0H	1.95	1.75	1.49
2236252	Kobiconn	161-3304E	33	2.5mm stereo jack, SMD, PCB	13.5L x 5.5W x 5.3H	.79	.69	.59

Additional panel mounting hardware – 1 2183218, 2 2182602, 3 2182709, 4 2182611, 5 2183349 (includes washer & nuts), see module below

† Closed circuit

\* Length x strain relief ID



## Panel Mounting Hardware for Plugs and Jacks

\*Web Code: **PAM**

Part No.	Ref. #	Description	1	10
2183218	1	M6 x 0.50"; (1) flat washer, (2) hex nuts	\$ .69	\$ .59
2182602	2	M8 x 0.75"; (1) flat washer, (2) hex nuts	.79	.69
2182709	3	M9 x 0.75"; (1) flat washer, (2) hex nuts	.69	.59
2182611	4	3/8-32 NEF thread; (1) internal tooth washer, (2) hex nuts	.69	.59
2183349	5	1/4-32 thread; (1) internal tooth washer, (2) hex nuts	.99	.89



## High Definition Multimedia Interface (HDMI) Cables

\*Web Code: **DEM**

HDMI provides an interface between any audio/video source, such as set-top box, DVD players, A/V receivers, audio/video monitors, DTV, HDTV and plasma monitors.



Part No.	Product No.	Description	1	5	25
2205421	E057319000	HDMI male to male, 1.5 meters	\$3.49	\$2.95	\$2.75
1944151	10HM-01128-02	HDMI male to male, 2 meters	4.95	4.49	3.95
1944169	10HM-01128-05	HDMI male to male, 5 meters	9.95	8.95	7.95



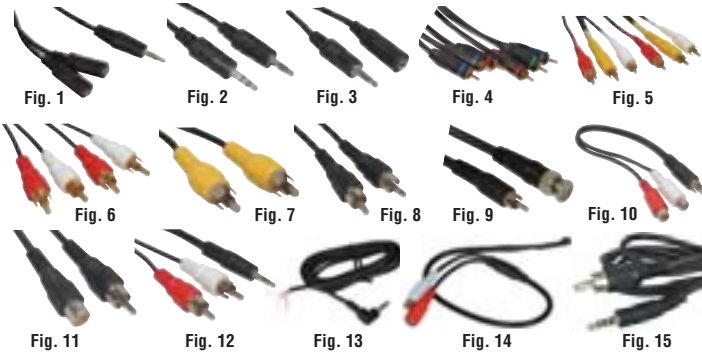
# Audio/Video Cables, Adapters and D-Sub Connectors

JAMECO ValuePro

STEREN

## Audio/Video Cables and Adapters

\*Web Code: QAP



### 3.5mm Audio Splitter and Extension/Patch Cables

\*Web Code: JAU

Part No.	Fig.	Description	1	10	100
228398	1	6' 3.5mm stereo Y-cable F jacks (2) to M plug*	\$2.29	\$1.95	\$1.59
2174637	2	2' 3.5mm stereo M to M plug (black)*	1.25	1.09	.99
228494	2	6' 3.5mm stereo M to M plug (black)*	1.95	1.75	1.49
228515	3	6' 3.5mm stereo M plug to F jack (black)*	2.95	2.65	2.39
228507	2	12' 3.5mm stereo M to M plug (black)*	2.95	2.65	2.39
228523	3	12' 3.5mm stereo M plug to F jack (black)*	2.95	2.75	2.39

STEREN

### RCA Audio Adapters & Couplers

\*Web Code: KBO

Part No.	Manufacturer	Product No.	Description	1	10	100
228283	Steren	251-120	RCA female jack to mono 1/4" male plug, nickel plated	\$.79	\$.69	\$.59
228267	Steren	251-116	RCA female to female jack coupler, gold plated	.79	.69	.55



### Switchcraft® Microphone (XLR) Connectors

\*Web Code: ABV

Part No.	Manufacturer	Product No.	Description	Dimensions (mm)	1	10	25
319003	Steren	250-720	3-pin female, straight cord plug w/ latchlock	81.5L x 7.43D	\$2.25	\$1.95	\$1.75
319011	Steren	250-710	3-pin male, straight cord plug, latch holder	70.6L x 7.31D	2.95	2.65	2.39
281640	Switchcraft	D3F	3-pin female, metal, panel mount, latchlock	27.0W x 36.3H x 30.6D	3.95	3.75	3.49
1774711	Switchcraft	PQG3M5T111	3-pin male, plastic panel mount, PCB term.	27.1W x 30.0H x 19D	1.95	1.75	1.49



### TE Amphenol® D-Subminiature Connectors

\*Web Code: ESO

#### Right Angle PCB Mount

#### Metal .318" Setback – Tin plated short style

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
2236009	ValuePro	DB9MP#	9	M	\$.65	\$.55	\$.45
104943	ValuePro	1008-9P-R	9	M	.75	.65	.55
104952	Adam Tech	DE09-SL-25	9	F	.89	.79	.69
71125	ValuePro	1008-15PCKAB	15	M	.85	.75	.65
77956	ValuePro	1008-15S-R	15	F	1.05	.95	.85
2145001	ValuePro	PT285805-15††	15	F	.39	.35	.29
1952273	Kycon	HDDSUB-15S†*	15	F	.45	.39	.29
71466	ValuePro	1010-15-S*	15	F	.99	.89	.79
15150	ValuePro	1008-25P-R	25	M	1.09	.99	.89
15182	ValuePro	1008-25S-R	25	F	.99	.89	.79

#Plastic (.525" set back) † Without female jack screws †† Non-removable jack screws \*High Density

#### Right Angle PCB Mount

#### Metal .590" Set Back – Tin plated long style

• Current rating: 1A

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
104970	ValuePro	1011-9P-R	9	M	\$1.09	\$.99	\$.89
2180981	Interconnect Devices	JKEY9S3D13	9	F	.79	.69	.59
104985	Astron	DA15P590†	15	M	.49	.45	.39
2227348	ADI	ADIN-21ST-25S*	25	F	.89	.79	.65
104993	ValuePro	1011-15S	15	F	.49	.39	.35
2231427	Shogyo	DB15-F-PCB	15	F	.59	.49	.45
105013	ValuePro	1011-25S	25	F	1.49	1.25	1.09

† Without female jack screws

\*Gold



\*Web Code: HAN

### RCA Audio/Video Patch Cables

Part No.	Fig.	Description	1	10	100
2081852	4	6' RCA component video (3) M to (3) M, HD-RGB*	\$2.49	\$2.25	\$1.95
228443	6	3' RCA stereo (2) M to (2) M plugs, gold plated*	1.95	1.75	1.49
1949470	8	6' RCA M to M plug, gold plated	1.25	1.09	.89
106375	8	6' RCA M to M plug (black)*	1.95	1.75	1.49
683059	9	6' RCA M BNC to M RCA cable (black)	3.95	3.59	3.29
29349	7	10' RCA mono M to M plug (yellow)	1.95	1.75	1.49
225980	5	12' RCA (3) M to (3) M plugs, gold plated*	3.95	3.59	3.29
228478	6	25' RCA stereo (2) M to (2) M plugs, gold plated*	3.95	3.59	3.19

### RCA Audio/Video Extension Cables

Part No.	Fig.	Description	1	10	100
228355	10	6' RCA M plug to RCA (2) F jacks*	\$.99	\$.85	\$.69
228419	11	6' RCA mono M plug to F jack	1.49	1.25	1.19

### RCA to 3.5mm Audio Cables

Part No.	Fig.	Description	1	10	100
2265967	15	4' RCA M plug to 3.5mm stereo TRRS M	\$1.59	\$1.45	\$1.29
228401	12	6' RCA stereo (2) M plugs to 3.5mm stereo M plug*	1.95	1.75	1.49
2260287	13	6' pigtail leads to 3.5mm stereo M plug	2.95	2.59	2.29
2230053	14	1.42' mini CCTV mic, (1) F RCA & 2.1mm DC jack	2.95	2.59	2.25

\*Manufacturer: Steren Electronics

### Metal Solder-Cup

\*Web Code: EAB

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
15748	ValuePro	1001-9P-R	9	M	\$.89	\$.79	\$.69
15771	Steren	500-109	9	F	.85	.69	.55
223052	TE Connectivity	747905-2	9	F	2.49	2.25	1.95
15035	ValuePro	1001-15P-R	15	M	1.05	.95	.85
15078	ValuePro	1002-15P-R*	15	M	1.16	.89	.85
15052	ValuePro	1001-15S-R	15	F	1.05	.95	.85
164823	ValuePro	1002-15S-R*	15	F	1.09	.89	.75
15115	ValuePro	1001-25P-R	25	M	1.35	1.09	.99
223010	TE Connectivity	747912-2	25	M	3.95	3.59	3.25
15157	Steren	500-125	25	F	1.35	1.09	.99
15473	ValuePro	1001-37P-R	37	M	1.45	1.19	1.09
15500	ValuePro	1001-37S	37	F	1.35	1.09	.99
482741	Amphenol	EDD50S	50	F	2.95	2.59	2.25

\*High Density

\*Web Code: SBK

### Metal Straight PCB Mount

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
111692	ValuePro	1003-9P-R	9	M	\$.59	\$.49	\$.39
15781	ValuePro	1003-9S-R	9	F	.59	.49	.35
2133510	TE Connectivity	749798-1*	15	M	.39	.29	.25
15123	ValuePro	1003-25P-R	25	M	.75	.65	.55
15165	ValuePro	1003-25S	25	F	.85	.75	.65
2233941	Arndt	DB220-PF25GF-H†	25	F	6.95	6.25	5.49
180021	ValuePro	1003-37S**	37	F	1.25	1.09	.99
2185758	Amphenol	17-20370-11	37	M	1.49	1.25	1.09

\*High Density

\*\*Black

† Wire wrap terminals

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# D-Sub Connectors, Contacts, Hoods & Hardware

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JAMECO ValuePro



## D-Subminiature Connectors (Continued)



### IDC Ribbon Cable

- Contact material: phosphor bronze **109226**
- Terminates with standard D-type connectors

\* Web Code: MAP

Part No.	Manufacturer	Product No.	Shell	Cont.	Gender	1	10	100
109226	ValuePro	1007-9P/M-R	Metal	9	M	\$2.09	\$1.89	\$1.65
12504	ValuePro	1007-9P/P-R	Plastic	9	M	1.75	1.49	1.25
109218	ValuePro	1007-9S/M-R	Metal	9	F	2.09	1.89	1.65
117382	ValuePro	1007-15P/M-R	Metal	15	M	2.25	1.95	1.75
116012	ValuePro	1007-15SM-R	Metal	15	F	1.95	1.75	1.49
2235831	Kobiconn	156-1625	Metal	25	M	2.25	1.95	1.75
115984	ValuePro	1007-25P/M-R	Metal	25	M	2.49	2.25	1.95
115976	ValuePro	1007-25S/M-R	Metal	25	F	2.65	2.39	2.09

\* Additional D-Sub Connectors — Enter Web Code DSB

### IDC Ribbon Cable (Continued)

Part No.	Manufacturer	Product No.	Shell	Cont.	Gender	1	10	100
2162708	CWI	CWR-180-373-003W/O#	Metal	37	M	\$ .69	\$ .59	\$ .49
115992	ValuePro	1007-37P/M-R	Metal	37	M	2.95	2.65	2.39
116004	ValuePro	1007-37S/M-R	Metal	37	F	2.95	2.65	2.39

# Without strain relief

### Crimp-Type

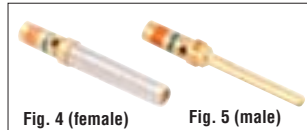
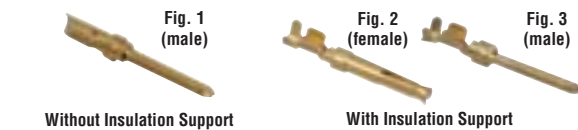
\* Web Code: UBR

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
73189	Steren	500-010	9	M	\$ .69	\$ .59	\$ .49
73197	Steren	500-110	9	F	.69	.59	.49
38789	ValuePro	500-027	25	M	.89	.75	.65
38771	Steren	500-1N27	25	F	.89	.75	.65



## D-Sub Solder & Crimp Contacts

\* Web Code: JDC



### Male Crimp Contact — Fig. 1

Part No.	Mfr.	Product No.	AWG	1	10	100
234982	TE Conn.	66570-3	28-24	\$ .39	\$ .35	\$ .29

### Female Crimp Contacts — Fig. 2

Order in multiples of 10

Part No.	Mfr.	Product No.	AWG	10	100	1000
43369	Steren	500-155	28-24	\$ .17	\$ .15	\$ .12
185412	ValuePro	1006-PS	28-24	.05	.04	.03
223298	TE Conn.	66504-9	24-20	.22	.19	.15
223255	TE Conn.	1-66504-0	24-20	.19	.15	.12

\* Terminal Blocks — Enter Web Code XBD

\* D-Sub Hoods — Enter Web Code DAB

### Male Crimp Contacts— Fig. 3

\* Order in multiples of 10

Part No.	Mfr.	Product No.	AWG	1	10	100
185421	ValuePro	1006-PP	28-24	...	\$ .07	\$ .05
43377	Steren	500-055	28-24	...	.17	.15
223108	TE Conn.	66507-9	28-24	.29	.25	.19
223191	TE Conn.	66506-9	24-20	...	.19	.15

### Female Solder Contact (M39029/63-368) — Fig. 4

\* Machined

Part No.	Mfr.	Product No.	1	10	100
449351	TE Conn.	205090-1	\$ .55	\$ .49	\$ .45

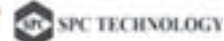
### Male Solder Contact (M39029/64-369) — Fig. 5

\* Machined

Part No.	Mfr.	Product No.	1	10	100
449342	TE Conn.	205089-1	\$ .49	\$ .45	\$ .39



## Hardware for D-Sub Connector Hoods



\* Web Code: PAM



### 4-40 Hex Jack Screw Sets

- 16548:** 4-40 Hex (.187"W x .187"H x .315"L thread) jack screw, nut & washer set — plating B
- 2100283:** 4-40 Hex (.187"W x .187"H x .315"L thread) jack screw with lock washer — plating C
- 2185766:** 4-40 Hex (.187"W x .187"H x .356"L thread) jack screw, nut & washers screws & clip — plating A

\* Order in multiples of 10

Part No.	Mfr.	Prod. No.	Plating*	1	10	100
16548	ValuePro	14-522	B ...	\$ .75	\$ .59	\$ .55
2100283	ValuePro	JS4403LW	C .....	*	.19	.15
2185766	Arndt	17-768	A .....	.59	.55	.45

### 4-40 x .187"/.195" Standoffs

Part No.	Mfr.	Length	Plating*	1	10	100
175636	ValuePro	.187"	B ....	\$ .49	\$ .45	\$ .39
102796	ValuePro	.235"	A .....	.29	.25	.19

### 4-40 x .187" Jack Screws

Part No.	Mfr.	Length	Plating*	1	10	100
2228949	Molex	.250"	A	....\$ .29	\$.25	\$.19
169931	ValuePro	.275"	A	.....25	.19	.15
102816	ValuePro	.437"	B	.....39	.35	.29
108987	ValuePro	.515"	A	.....45	.39	.35

### 4-40 Slotted D-Sub Plastic Thumbscrew

Part No.	Mfr.	Length	Plating*	1	10	100
125015	ValuePro	1.65"	A ...	\$ .25	\$ .15	\$ .12

### 4-40 Slotted D-Sub Knurled Thumbscrews

Part No.	Mfr.	Length	Plating*	1	10	100
2186216	ValuePro	1.54"	B ....	\$ .29	\$ .25	\$ .19
2179438	SPC (2pk)	2.83"	B .....	.25	.19	.15

\* Plating — A: Zinc, clear chromate B: Chrome  
C: Chrome with lock washer

More Hardware on pages 77-78

## D-Sub Connector Hoods

\* Web Code: DAB



25620 Metallized 15086 Plastic

- Use with D-sub solder cup and housing style connectors (hardware included)
- D Series:** Plastic hood with strain relief (gray)
- MD Series:** Metal coated plastic hood w/ strain relief
- MH Series:** Die-cast metal hood with strain relief

Part No.	Mfr.	Product No.	Pins	1	10	100
15722	ValuePro	DB9H	9	\$ .75	\$ .59	\$ .55
25620	Steren	MDB9H	9	.85	.79	.69
2185740	Amphenol	17-1587-3	9	.79	.69	.59
147741	ValuePro	MHDB9*	9	1.85	1.59	1.39
15019	ValuePro	DA15H	15	.95	.79	.69
25567	ValuePro	MDA15H	15	.99	.85	.65
15086	ValuePro	DB25H	25	1.75	.65	.55
25604	ValuePro	MDB25H	25	1.05	.89	.75
15107	ValuePro	MHDB25	25	2.25	1.95	1.75

\* No strain relief

## Slim-Line D-Sub Gender Changers/Coupler

### For Confined Applications!

\* Web Code: YAB

- Captive locking screw (male)
- Captive locking nut (female)
- Tin plated shells
- Grounding tangs (male)
- Width: 0.69"



Part No.	Description	1	10	100
18498	9-pin male to male	\$2.09	\$1.89	\$1.65
18489	9-pin female to female	1.95	1.75	1.49
119320	15-pin female to female HD	4.95	4.49	3.95
18420	25-pin female to female	2.65	2.39	2.09

## D-Sub Crimping Tool

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins & sockets, D-sub 26-28 AWG wire; butt-insulated connectors, 22-26 AWG wire; telephone spade lugs, 22-26 AWG wire and non-insulated connectors, 20-22 AWG & 14-18 AWG
- Coiled spring return • Size: 7.3"L x 1.5"W



\* Web Code: GBU

Part No.	Mfr.	Part No.	1	5	25
99443	HT202A		\$9.95	\$8.95	\$7.95

More Tools on pages 118-121

# Power Connectors, Receptacles, Housings & Contacts

## molex® Power Connectors

- 5.03mm (.198") pitch
- Passive friction lock
- Housing: nylon; UL94V-2
- Temperature range: -40°C to +105°C
- Contact retention to housing: 20 lbs. min.



### .062" (1.57mm) Plugs (Contacts to the right)

- Current: 5.0A

Part No.	Mfr. Part No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224485	03-06-2023	2	Free hanging	In-line	224400	..... *	\$ .19	\$ .15
224506	03-06-2042	4	Free hanging	In-line	224426	..... .25	.22	.19
224514	03-06-2044	4	Free hanging	Matrix	224434	..... .25	.22	.19

### .062" (1.57mm) Receptacles (Contacts to the right)

Part No.	Mfr. Part No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224400	03-06-1023	2	Free hanging	In-line	224485	..... *	\$ .19	\$ .15
224426	03-06-1042	4	Free hanging	In-line	224506	..... .35	.29	.25
224434	03-06-1044	4	Free hanging	Matrix	224514	..... .39	.35	.29

### .093" (2.36mm) Plugs (Contacts to the right)

- Current: 12A/circuit

Part No.	Mfr. Part No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224071	03-09-2022	2	Free hanging	In-line	224143	..... *	\$ .19	\$ .15
224080	03-09-2032	3	Free hanging	In-line	224151	..... .25	.19	.15
224098	03-09-2042	4	Free hanging	In-line	224160	..... .29	.25	.19

### .093" (2.36mm) Receptacles (Contacts to the right)

Part No.	Mfr. Part No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224143	03-09-1022	2	Free hanging	In-line	224071	..... *	\$ .19	\$ .15
224151	03-09-1032	3	Free hanging	In-line	224080	..... .25	.19	.15
224160	03-09-1042	4	Free hanging	In-line	224098	..... .45	.39	.35
230156	03-09-1041	4	Panel mount	In-line	224098	..... *	.19	.15

\*Power Connectors — Enter Web Code BAM

\*Rectangular Connectors — Enter Web Code RCC

\*Networking Connectors — Enter Web Code NCS

## molex® Connector for Battery Packs

### One Pair of Male/Female Two Positions

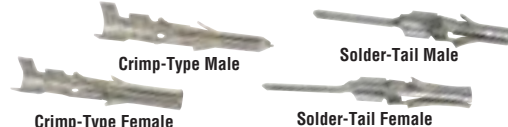
- Popular with radio and control hobbyists
- Mini-Fit Jr.™ receptacle and plug housing pair
- 12" wire leads black and red
- 18 AWG

Part No.	Mfr. Part No.	1	10	50
2232841	CBL-M/F-2COND	..... \$2.95	\$2.59	\$2.29

## molex® Power Connector Contacts

\*Web Code: JBL

- Contact: brass or phosphor bronze
- Temp. range: -40°C to +105°C
- Tin plating



### .062" (1.57mm) Bulk Contacts for Plugs & Receptacles

Part No.	Mfr.	Mfr. Part No.	Description	Gender	AWG	10	100	1000
224581	Molex	02-06-2132	Crimp type	M	24-30	..... \$ .12	\$ .10	\$ .08
224573	Molex	02-06-1132	Crimp type	F	24-30	..... .09	.07	.05
224565	Molex	02-06-2103	Crimp type	M	18-24	..... .12	.09	.06
224557	Molex	02-06-1103	Crimp type	F	18-24	..... .12	.09	.07
227387	Molex	02-06-7103	Solder tail	F	—	..... .15	.12	.09

### .093" (2.36mm) Bulk Contacts for Plugs & Receptacles

Part No.	Mfr.	Mfr. Part No.	Description	Gender	AWG	10	100	500
224207	Molex	02-09-2118	Crimp type	M	18-22	..... \$ .12	\$ .09	\$ .07
224215	Molex	02-09-1119	Crimp type	F	18-22	..... .15	.12	.09
224223	Molex	02-09-2103	Crimp type	M	14-20	..... .15	.12	.09
224231	Molex	02-09-1104	Crimp type	F	14-20	..... .12	.09	.07

## .165" (4.19mm) Mini-Fit Jr.™ Receptacles & Housings

molex®

\*Web Code: CBX



### Double Row Female Receptacles (Fig. 1)

Part No.	Mfr. Part No.	Flammability	Position	1	10	100	500	1000
303562	39-01-2020	UL94V-2	2	..... \$ .25	\$ .19	\$ .16	\$ .13	\$ .11
303571	39-01-2040	UL94V-2	4	..... .25	.19	.17	.16	.14
880790	39-01-2065	UL94V-0	6	..... .59	.49	.43	.39	.35

### Double Row Male Plug Housings — Free Hanging (Fig. 2)

Part No.	Mfr. Part No.	Flammability	Position	1	10	100	500	1000
881004	39-01-3023	UL94V-2	2	..... \$ .25	\$ .19	\$ .17	\$ .15	\$ .14
881135	39-01-3049	UL94V-0	4	..... .45	.39	.35	.29	.25
881178	39-01-3069	UL94V-0	6	..... .59	.45	.39	.35	.31
798307	39-01-3089	UL94V-0	8	..... .65	.55	.49	.45	.39
2232884	39-01-3129	UL94V-0	12	..... .59	.49	.45	.39	.35

### Double Row Male Plug Housings w/ Mounting Ears — Panel Mount (Fig. 3)

Part No.	Mfr. Part No.	Flammability	Position	1	10	100	500	1000
303685	39-01-2021	UL94V-2	2	..... \$ .29	\$ .25	\$ .22	\$ .18	\$ .16
303693	39-01-2041	UL94V-2	4	..... .39	.29	.25	.19	.17
880811	39-01-2066	UL94V-0	6	..... .59	.49	.39	.35	.29
2232892	39-01-2086	UL94V-0	8	..... .49	.45	.42	.39	.35

## TE D-Sub Pin Insertion/Extraction Tools

19094/527582:

- Plastic body;
- metal tips

223327: \*Web Code: LSS

- Handle with .050" hex wrench and exchangeable tips

841838:

- Works with general contacts of CPC, multimate and MATE-N-LOCK II contacts

Part No.	Mfr.	Product No.	Contact Size	1	10
19094	Stern	500-200	—	..... \$3.95	\$3.59
527582	TE Conn.	91067-1	22	..... 9.95	9.49
223327	TE Conn.	91285-1	HD-20	..... 22.49	21.49
841838	TE Conn.	305183	0.715" Dia.	..... 15.95	14.49

## molex® .093" Power Connector Kits

- Voltage: 250VAC
- Temp. range: -40°C to +105°C
- 142181: • 3 ea. 2-pin plugs & receptacles, 8 ea. female & male contacts
- Current: 12A
- 142201: • 2 ea. 4-pin plugs & receptacles, 10 ea. female & male contacts
- Current: 9A



Part No.	Mfr. Part No.	Description	1	10	100
142181	1545	2-pin kit	..... \$4.95	\$4.49	\$3.95
142201	1490	4-pin kit	..... \$4.99	\$4.95	\$4.49

## molex® .165" (4.19mm) Mini-Fit Jr.™ Type Terminals

- A: Tin over nickel over brass
- B: 15μ" gold over nickel over brass

\*Web Code: CBX

Part No.	*Mfr.	Product No.	Type	AWG	1	10	100
401701	JVP	4256T2-LP	2A	18-24	..... \$ .25	\$ .09	\$ .07
2232913	MOL	39-00-0075	1B	18-24	..... .25	.22	.19
401736	ADM	4256T2-15GC	2B	18-24	..... .35	.29	.25
304725	MOL	39-00-0041	1A	18-24	..... *	.12	.09
304733	MOL	39-00-0039	2A	18-24	..... *	.09	.07
304872	MOL	39-00-0047	2A	22-28	..... *	.15	.10

\*ADM = Adam Tech; JVP = Jameco ValuePro; MOL = Molex

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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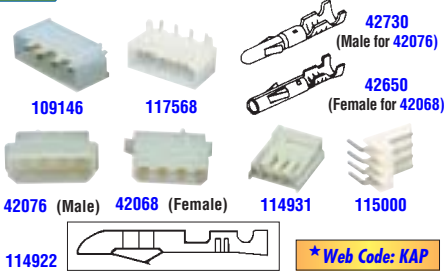


# Power Connectors & Crimp Terminals

3 LEVELS OF SAVINGS		
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## Power Connectors & Pins



### Connector & Housing Specifications:

- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

### Crimp Pin Specifications:

- Material: tin plated brass
- Current rating: 1.5A
- Wire size range: 18-24 AWG
- Use crimp tool P/N 99443, pg 119

### .100" - For 3.5" Disk Drives & Power Supplies

- Volt. rating: 250V AC/DC
- Wire gauge: 22-26 AWG
- Insulation resistance: 1000MΩ min.

Part No.	Description	1	10	100
114931	4-pin female housing	\$.39	\$.35	\$.29
114922	Female crimp pin for 114931	\$.25	\$.19	\$.15
115000	4-pin male rt. angle PCB mounting	\$.55	\$.49	\$.45

### .200" - For 5.25" Disk Drives & Power Supplies

#### 42076 & 42068 Connector Housings:

- External key bar indicates pin 1
- Extraction tools, P/Ns 131887 & 131879 (see right)
- Keyed mating connectors

Part No.	Description	1	10	100
109146	4-pin male vert. PCB mntg	\$.65	\$.55	\$.49
117568	4-pin M PCB mntg, horiz. edge mnt	1.05	.95	.85
42076	4-pin male housing	.35	.29	.25
42068	4-pin female housing	*	.19	.15
42730	Male crimp pin for 42076	*	.22	.19
42650	Female crimp pin for 42068	*	.15	.12



## Extraction Tools for Crimp Terminals

- Quickly and easily extract .093" locking pins from interlocking connectors
- Length: 5"



Part No.	Description	1	5
131887	Male tool for 42730, above	\$12.95	\$11.49
131879	Male tool for 42650, above	10.95	9.95



## Connector Extraction Tools



Part No.	Mfr. Part No.	AWG	Conn. Size	1	5
142156	W-HT-2285	18-30	.062"	\$10.95	\$9.95
227467	W-HT-2023	18-30	.062"	9.49	8.95
142236	W-HT-2038	14-30	.093"	15.95	14.49
236128	W-HT-1884	22-30	.100"	11.95	10.95

\*Extraction Tools — Enter Web Code BAV

## POWER CONNECTOR & PIN

- .165" (4.19mm)
- Temp. range: -25°C to 85°C
- For motherboards & power supplies
- Current rating: 7A AC/DC

Part No.	Description	1	10	100
147379	20-pin male conn.	\$.29	\$.19	\$.15
147395	Female power terminal pin	*	.12	.09

## JST Connector Housings & Crimp Pins – Wire to Board

- Material: nylon 66
- Flammability: UL94V-2
- Pb free RoHS compliant
- Operating voltage: 150VAC max.
- 1 Amp max.
- Insulation resistance: 1000MΩ @ 500VDC
- Operating temperature: -25°C to +85°C

\*Web Code: HHT

Fig. 1

Fig. 2

Fig. 3

### .079" (2mm) Housings (Fig. 1)

Part No.	Mfr. Part No.	No. of Pos.	1	10	100
2234513	2CH-C-02	2	\$.19	\$.10	\$.08
2234521	2CH-C-03	3	.19	.11	.09
2234530	2CH-C-04	4	.19	.12	.10

### .156" (3.96mm) Housings (Fig. 2)

Part No.	Mfr. Part No.	No. of Pos.	1	10	100
2234556	396CH-B-03	3	\$.19	\$.11	\$.07
2234564	396CH-B-04	4	.19	.15	.09
2234572	396CH-B-05	5	.19	.16	.10
2234581	396CH-B-06	6	.19	.17	.12
2234599	396CH-B-08	8	.25	.22	.15

### Crimp Pins (Fig. 3) • 100VAC

Part No.	Mfr. Part No.	AWG	1	10	100
2234548	2CTC	30-24	\$.15	\$.09	\$.07

## JST Crimp Tool

Part No.	Mfr.	Mfr. Part No.	1	5
227491	GC/Waldom	W-HT-1921	\$15.95	\$14.49

## Male/Female Connector Housing

- Wire to wire connection
- Op. temp.: 40°C to +125°C
- RoHS compliant
- Nylon & polyamide housing material
- Pitch: 4mm, 5.25mm, 6.5mm, 7.7mm

\*Web Code: QZX

Part No.	Mfr. Part No.	M/F	No. of Pos.	1	10	25
2232420	54550403	1 Male	4	\$1.75	\$1.49	\$1.25
2232454	54550416	2 Male	4	1.95	1.75	1.49
2232446	54550415	2 Female	4	1.95	1.75	1.49
2232500	15326910	Female	12	1.95	1.75	1.49
2232542	04687929	# Female	14	1.75	1.49	1.25
2232551	04687935	# Male	14	1.95	1.75	1.49

1,2 Use w/ corresponding terminals below # Works together



## Male/Female Terminal Pins, Sockets and Accessories

- Unsealed/sealed terminals (crimp)
- Seals
- Secondary locks
- 1.5mm & 2.8mm blades
- RoHS compliant

2232631

2232471

2232518

\*Web Code: QZX

Part No.	Mfr. Part No.	Description	1	10	100
2232631	54001819	1 Terminal copper alloy, gold plating, 18-20 AWG	\$.59	\$.49	\$.39
2232649	54001801	1 Terminal copper alloy, tin plating, 18-20 AWG	.35	.29	.19
2232657	54001800	1 Terminal socket unsealed, copper alloy/tin plating	.29	.25	.19
2232622	54001831	2 Terminal socket unsealed, gold plating	.29	.25	.19
2232614	54001845	2 Terminal pin blade unsealed, gold plating	.59	.49	.39
2232606	12110295	Terminal socket sealed, tin plating	.25	.15	.12
2232471	12129381	† Metri-pack seal	.69	.59	.49
2232489	12129382	† O-ring blue seal	.59	.49	.39
2232518	12052834	† Lock CPA axial green	.25	.12	.09
2232497	12129384	† Blue connector seal	.49	.39	.29
2232593	12084913	†† Terminal phosphor bronze, gold plating	.49	.39	.29
2232526	12110299	†† Lock CPA red	.29	.25	.19
2232534	12129557	†† Blue cable cavity plug	.25	.15	.12

1,2 Use with corresponding housings above † Works together †† Works together



## .100" & 2mm Shorting Blocks



- Mates to .025" square posts on .100" centers
- Shorts headers/jumper blocks or color code strip line plugs
- Mate with male header (P/N 109576, pg 51)
- Pin material: phosphor bronze

\*Web Code: MAC

Open: Open on top to allow for a test point

Closed: Closed top

119264: 2mm (for disk drives) Order in multiples of 10

Part No.	Description	10	100	500
22024	Top open, black (.100")	\$.15	\$.12	\$.09
119264	Top open, black (2mm)	.12	.09	.07
112425	Top open, blue (.100")	.12	.09	.07
112417	Top open, red (.100")	.17	.15	.12
19141	Top closed, black (.100")	.15	.12	.09
112442	Top closed, blue (.100")	.17	.15	.12
112432	Top closed, red (.100")	.15	.12	.09
152671	Top closed, black tab (.100")	.17	.15	.12



## Soldering Aid Tool Kit

Excellent for soldering works to hold, remove, clean or replace components

- 6-pieces, each tool is double ended
- Knife, brush, scraper, hook, fork & spike



Part No.	Cross Ref. No.	1	5
2096000	GSR-107	\$6.95	\$6.25

## Deluxe Electronic Components Bundle

109 commonly used electronic components including voltage regulators, relays, diodes, switches, pots, logic chips, sockets, inverter, counters, timers, headers, 3-digit display, numeric keypad, DC power jacks, binding posts, various tools and more in a customizable



Top



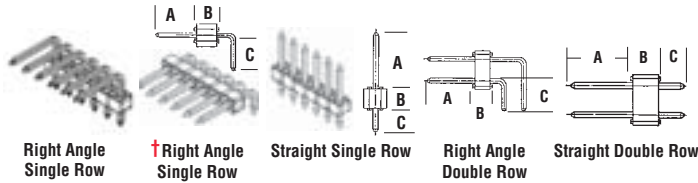
Bottom

Part No.	Cross Ref. No.	Price
2129123	DELUXE2	\$99.95

\*IDC Connectors — Enter Web Code DCD



## .100" (2.54mm) Straight and Right Angle Male Headers



### .100" (2.54mm) Right Angle Single Row Male Headers

\*Web Code: DAH

Part No.	Mfr.	Product No.	Pins	Size (A"xB"xC")	Plating	1	10	100
2076842	ValuePro	RMH5	5	.27 x .10 x .12	Gold	\$.29	\$.25	\$.19
2076851	ValuePro	RMH6	6	.27 x .10 x .12	Gold	.39	.35	.29
153728	ValuePro	RMH8	8	.27 x .10 x .12	Gold	.45	.39	.35
2076869	ValuePro	RMH26	26	.27 x .10 x .12	Gold	.75	.65	.55
103271	ValuePro	RMH36 (LP)†	36	.23 x .10 x .12	Gold	1.09	.89	.75
1946041	ValuePro	RMH36AR (type A)	36	.27 x .10 x .22	Gold	1.09	.89	.75

† Low profile

### .100" (2.54mm) Straight Single Row Male Headers

\*Web Code: TAM

Part No.	Mfr.	Product No.	Pins	Size (A"xB"xC")	Plating	1	10	100
2076797	ValuePro	SMH01	1	.23 x .10 x .12	Gold	\$.25	\$.07	\$.06
2144884	ValuePro	SMH02	2	.23 x .10 x .12	Tin	.29	.25	.19
108338	ValuePro	SMH02	2	.23 x .10 x .12	Gold	.25	.19	.15
421489	TE Connectivity	103185-3*	3	.23 x .09 x .12	Gold/Tin	.59	.55	.45
109576	ValuePro	SMH03	3	.23 x .10 x .12	Gold	.39	.35	.29
117560	ValuePro	SMH04	4	.23 x .10 x .12	Gold	.39	.35	.29
2120276	OST	PHI-787/120-041	4	.78 x .10 x .12	Gold	.29	.25	.19
2076789	ValuePro	SMH05	5	.23 x .10 x .12	Gold	.25	.19	.15
2229327	Arndt	225-0004*	6	.23 x .10 x .12	Gold/Tin	.25	.22	.17
153700	ValuePro	SMH06	6	.23 x .10 x .12	Gold	.29	.25	.19
153702	ValuePro	SMH08	8	.23 x .10 x .12	Gold	.35	.29	.25
103393	ValuePro	SMH10	10	.23 x .10 x .12	Gold	.49	.45	.35
103377	ValuePro	SMH17	17	.23 x .10 x .12	Gold	.39	.35	.29
2228826	Arndt	SMH18	18	.23 x .10 x .12	Gold	.39	.35	.29
2229036	ValuePro	2012-254-20	20	.18 x .09 x .18	Gold	.35	.29	.25
103369	ValuePro	SMH20	20	.23 x .10 x .12	Gold	.45	.39	.35
2236797	ValuePro	PH-14.3-120S	20	.23 x .09 x .23	Gold	.59	.49	.45
202825	ValuePro	SMH22	22	.23 x .10 x .12	Gold	.39	.35	.29
103351	ValuePro	SMH25	25	.23 x .10 x .12	Gold	.39	.35	.29
103342	ValuePro	SMH30	30	.23 x .10 x .12	Gold	.49	.45	.35
2207849	ValuePro	SMH32	32	.23 x .10 x .12	Gold	.45	.39	.35
2076826	ValuePro	SMH34	34	.23 x .10 x .12	Gold	.49	.45	.39
68339	ValuePro	SMH36	36	.23 x .10 x .12	Gold	.55	.45	.35
2168211	Adam Tech	PH1-40-UA	40	.23 x .10 x .12	Gold/Tin	.59	.55	.45
2229044	ValuePro	2012-254-40-40	40	.18 x .09 x .18	Gold	.69	.59	.55
160882	ValuePro	SMH40	40	.23 x .10 x .12	Gold	.79	.69	.65
2236800	ValuePro	PH-14.3-140S	40	.23 x .09 x .23	Gold	.79	.69	.59

\*Dimension "A" has gold plating over nickel; dimension "C" has tin plating

### .100" (2.54mm) Right Angle Double Row Male Headers

• Example: 10 pins are 2 rows of 5 pins

\*Web Code: DAP

Part No.	Mfr.	Cross Ref. No.	Pins	Size (A"xB"xC")	Plating	1	10	100
203932	ValuePro	923810DR	10	.23 x .10 x .12	Gold	\$.39	\$.29	\$.25
203959	ValuePro	923814DR	14	.23 x .10 x .12	Gold	.49	.35	.29
203967	ValuePro	923816DR	16	.23 x .10 x .12	Gold	.55	.39	.35
53576	ValuePro	923820DR	20	.23 x .10 x .12	Gold	.75	.65	.55
53583	ValuePro	9238260DR	26	.23 x .10 x .12	Gold	.85	.75	.69
53605	ValuePro	923840DR	40	.23 x .10 x .12	Gold	.99	.85	.69
53612	ValuePro	923850DR	50	.23 x .10 x .12	Gold	1.19	.99	.85
139564	ValuePro	923880DR	80	.23 x .10 x .12	Gold	1.39	1.19	.99

### .100" (2.54mm) Straight Double Row Male Headers

\*Web Code: QCM

• Example: 10 pins are 2 rows of 5 pins

Part No.	Mfr.	Product No.	Pins	Size (A"xB"xC")	Plating	1	10	100
115027	ValuePro	923804DS	4	.23 x .10 x .12	Gold	\$.45	\$.39	\$.25
115035	ValuePro	923806DS	6	.23 x .10 x .12	Gold	.49	.45	.35
2135312	ValuePro	FCN-724P008-AU/W	8	.23 x .10 x .12	Gold/Tin	.39	.29	.19
109517	ValuePro	7000-2x4SG	8	.23 x .10 x .12	Gold	.59	.45	.35
67821	ValuePro	923810DS	10	.23 x .10 x .12	Gold/Tin	.69	.59	.49
203810	ValuePro	923812DS	12	.23 x .10 x .12	Gold	.29	.25	.19
118456	ValuePro	923814DS	14	.23 x .10 x .12	Gold	.49	.45	.39
109568	ValuePro	923816DS	16	.23 x .10 x .12	Gold	.69	.65	.59
53480	ValuePro	923820DS	20	.23 x .10 x .12	Gold	.69	.65	.59
203844	ValuePro	923824DS	24	.23 x .10 x .12	Gold	.59	.49	.39
53495	ValuePro	923826DS	26	.23 x .10 x .12	Gold	.69	.65	.59
53517	ValuePro	923834DS	34	.23 x .10 x .12	Gold	.69	.65	.55
53532	ValuePro	923840DS	40	.23 x .10 x .12	Gold	.85	.75	.65
53560	ValuePro	923850DS	50	.23 x .10 x .12	Gold	.99	.85	.75
68574	ValuePro	923860DS	60	.23 x .10 x .12	Gold	1.09	.89	.79
2200701	Berg	67997-472	72	.23 x .10 x .12	Tin	.79	.69	.59
103406	ValuePro	70002X36SG	72	.23 x .10 x .12	Gold	.99	.89	.79
2120284	Adam Tech	PH2-230/135-805	80	.23 x .10 x .12	Tin	.85	.69	.55
117197	ValuePro	923880DS	80	.23 x .10 x .12	Gold	1.39	1.19	.99

\*Dimension "A" has gold plating; dimension "C" has tin plating

### .079" (2mm)/.100" (2.54mm) Male Headers Grab Bag

\*Web Code: GBS



Part No.	Cross Ref.	Description	Wt. (lbs.)	1	10
2095138	GB204	100 assorted .100" male headers (breakway) Straight, right angle, single and double row	0.3	\$9.95	\$8.95

## POWER CONNECTOR GRAB BAG

• .100" (2.54mm)/.118" (3.00mm)/.165" (4.19mm) connectors

Part No.	Product No.	Description	1	10
2133739	GB207	200 assortment IDC, CMNL, Mini-Fit JR/SR, power connectors (straight & right angle)	\$9.95	\$8.95

## molex® KK® Series .100" (2.54mm) Female Housings with Locking Ramp

\*Web Code: LBN

- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 50kMΩ
- Voltage: 250V

### Housing Material:

- Contact retention to housing: 8 lbs. min.
- Contact insertion force: 1.5 lbs. max.
- Housing: nylon, UL94V-0
- Operating temperature: 0 to 75°C



### Housing with Locking Ramp

\* Order in multiples of 10

Part No.	Mfr. Part No.	Pos.	1	10	100
234704	22-01-2027	2	\$.11	\$.07	
234712	22-01-2037	3	.17	.11	
234721	22-01-2047	4	.17	.11	
234739	22-01-2057	5	.25	.23	.15
234747	22-01-2067	6	.27	.25	.17
234771	22-01-2107	10	.49	.45	.35

### Housing w/ Locking Ramp & Polarizing Ribs

\* Order in multiples of 10

Part No.	Mfr. Part No.	Pos.	1	10	100
234798	22-01-3027	2	\$.12	\$.08	
234801	22-01-3037	3	.17	.11	
234819	22-01-3047	4	.19	.13	
234827	22-01-3057	5	.29	.25	.17
234835	22-01-3067	6	.35	.29	.19
234851	22-01-3087	8	.45	.39	.25
234878	22-01-3107	10	.49	.45	.35

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

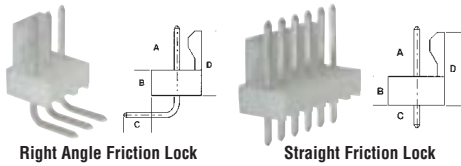
# Headers, Housings & Crimp Terminals

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

**molex**

JAMECO ValuePro

## .100" (2.54mm) Straight and Right Angle Friction Lock Headers



Right Angle Friction Lock

Straight Friction Lock

879588



\* Web Code: GBN

### .100" (2.54mm) Right Angle Friction Lock Headers

\* Order in multiples of 10

Part No.	Mfr.	Product No.	Pos.	Size (A"xB"xC"xD")	Plating	1	10	100
233437	Molex	22-05-3021	2	.26 x .13 x .14 x .32	Tin	..... *	\$ .19	\$ .15
233445	Molex	22-05-3031	3	.26 x .13 x .14 x .32	Tin	..... .25	.19	.15
233453	Molex	22-05-3041	4	.26 x .13 x .14 x .32	Tin	..... .29	.25	.19

### .100" (2.54mm) Straight Friction Lock Headers

\* Order in multiples of 10

Part No.	Mfr.	Product No.	Pos.	Size (A"xB"xC"xD")	Plating	1	10	100
232266	Molex	22-23-2021	2	.30 x .13 x .14 x .32	Tin	..... *	\$ .15	\$ .09
879588	Molex	22-29-2021	2	.30 x .13 x .14 x .46	Gold	..... .29	.25	.19
232274	Molex	22-23-2031	3	.30 x .13 x .14 x .32	Tin	..... *	.22	.19
232282	Molex	22-23-2041	4	.30 x .13 x .14 x .32	Tin	..... .29	.25	.19
232291	Molex	22-23-2051	5	.30 x .13 x .14 x .32	Tin	..... .29	.25	.19
348082	ValuePro	641215-5	5	.30 x .10 x .14 x .31	Gold	..... .29	.25	.19
232303	Molex	22-23-2061	6	.30 x .13 x .14 x .32	Tin	..... .29	.25	.19
232320	Molex	22-23-2081	8	.30 x .13 x .14 x .32	Tin	..... .39	.35	.25
232346	Molex	22-23-2101	10	.30 x .13 x .14 x .32	Tin	..... .49	.45	.35

## molex KK® Series .100" (2.54mm) Crimp Terminals

- Current: phosphor bronze – 4.0A max.; brass – 2.5A max.
- Insulation range: 0.062" (1.58mm) diameter max.
- Accommodates 22 to 30 AWG
- Material: 736501/234923/234931: brass; 736595/462969/463005: phosphor bronze

\* Web Code: JCT



### Bulk Packaged

Order in multiples of 10

Part No.	Mfr.	Part No.	Plating	10	100	1000
736501	08-50-0113	Tin*	.....	\$ .06	\$ .05	\$ .04
234923	08-50-0114	Tin	.....	.07	.06	.05
234931	08-55-0102	15µ" gold	.....	.12	.10	.08
736595	08-52-0123	Tin	.....	.12	.09	.08
462969	08-65-0805	Tin (cat ear)	.....	.12	.10	.08
463005	08-65-0816	15µ" gold	.....	.22	.19	.15

\* Cut tape packaging

## molex .100" (2.54mm) Pitch SL™ Wire-to-Board Crimp Housing

### Single Row, Version G, Positive Latch

- Housing: black glass filled polyester, UL94V-0

\* Web Code: VDD



Order in multiples of 10

Part No.	Mfr.	Part No.	Pos.	10	100
884328	50-57-9402	2	.....	\$ .25	\$ .15

### Female Crimp Terminals



741685

Order in multiples of 10

Part No.	Mfr.	Part No.	AWG	Plating	10	100
741685	16-02-0103	22-24	15µ" gold	..	\$ .09	\$ .08
741677	16-02-0086	22-24	Tin	.....	.06	.05

## D-SUB TERMINAL CRIMPERS

- With cutter
- Cushioned grip

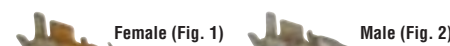


99443

Part No.	Mfr.	Part No.	AWG	Price
99443	HT202A	26-28	.....	\$9.95
159266	HT213	20-28	.....	15.95

\* Wire Cutters, Strippers & Crimpers — Enter Web Code GBU

## JAMECO ValuePro .118" (3.00mm) Micro-Fit Crimp Terminals



- Material: phosphor bronze, tin

\* Web Code: UBW

Order in multiples of 10

Part No.	Mfr.	Product No.	Fig.	AWG	10	100
337720	ValuePro	43030-0007	1	20-24	\$ .12	\$ .09
883093	Molex	43030-0007	1	20-24	.09	.07
337746	ValuePro	43030-0010	1	20-24	.12	.07
337762	Adam Tech	43031-0007	2	20-24	.07	.06

## Hand Tools for Mini-Fit Jr.™

- 304928: Crimp tool wire range from 14-24 AWG, 8.5"L
- 304936: Extraction tool, 3.5"L
- 308030: Cuts 14-24 AWG, 8.3"L
- 227491: Cuts 10-20 AWG, 8.3"L

\* Web Code: GBU



308030

## Tools for Micro-Fit Connectors



Part No.	Cross Ref. No.	Description	Length	1	5
338678	HT-225D	Crimp	8.25"	\$25.95	\$23.49
338669	11-03-0043	Extraction	3.0"	12.95	11.49

\* Automotive Housings & Terminals — Web Code QZX

## YAZAKI YESC Housings

- Automotive applications
- Wire to wire/wire to device
- HPA – heat resistance nylon
- Operating temperature: -40°C to +100°C

2232702

Part No.	Mfr.	Part No.	Description	1	10	50
2232702	7282-5567-40	1	12 pos. M	\$4.95	\$4.49	\$3.95
2232737	7283-5916-40	1	12 pos. F	4.95	4.49	3.95
2232729	7283-5643-40	2	13 pos. F	5.95	5.39	4.79

1,2 Use with corresponding terminals on the right

## TE MATE-N-LOCK Housings

- Automotive applications
- Pb free RoHS

527056

525608

\* Web Code: MQZ

Part No.	Mfr.	Part No.	Description	1	10	100
527056	1-480318-0	Female 2 pos.	.....	\$ .25	\$ .15	\$ .12
525608	770017-1	Male 2 pos.	.....	.89	.75	.65

1 Use with corresponding terminals below

## MATE-N-LOCK Crimp Terminals

- Automotive applications
- 600 voltage rating
- Material/plating:
  - A: Phosphor bronze/pre-tin
  - B: Copper alloy/tin
  - C: Copper/tin
  - D: Brass/gold

\* Web Code: MQZ



Part No.	Mfr.	P/N	M/F	Material†	AWG	1	10	100
2232665	770004-3	1	F	A	10-12	\$ .29	\$ .19	\$ .17
1977403	770003-3	M	A	10-12	..	.29	.19	.17
2232673	66740-7	F	C	12-16	.....	3.95	3.49	2.95
2231128	1-66255-1	M	B	12-16	.....	1.19	.99	.85
2232681	1326032-5	F	B	14	.....	.35	.29	.19
2231101	1326031-5	M	B	14	.....	.25	.19	.17
2231110	1326031-0*	M	B	14	.....	.25	.19	.17
967983	66100-9	F	D	16-18	.....	.39	.35	.29
2232690	1326032-1	F	B	22	.....	.29	.25	.19

1 Use with corresponding housings above \* Reel

## YESC Crimp Terminals

- Material/plating: copper alloy/tin
- Automotive applications
- Operating temperature: -40°C to +100°C
- Isolation resistance: 500VDC, 20MΩ
- Voltage drop: 10mV



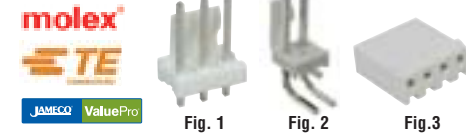
Part No.	Mfr.	Part No.	Descrp.	AWG	1	10	100
2231275	7114-4112-02	1,2	2.8mm M	14	\$ .25	\$ .19	\$ .15
2231241	7114-4120-02	2	6.3mm M	14	..	.25	.19
2232411	7114-4121-02	2	6.3mm M	14	.....	.25	.19
2231224	7116-4112-02	1,2	2.8mm F	14	.....	.25	.09
2231283	7114-4111-02	1,2	2.8mm M	16-18	.....	.25	.19
2231232	7116-4111-02	1,2	2.8mm F	16-18	.....	.25	.09
2231259	7114-4110-02	1,2	2.8mm M	20-22	.....	.25	.19
2231267	7116-4110-02	1,2	2.8mm F	20-22	.....	.25	.09

1,2 Use with corresponding housings on the left



# Headers, Crimp Terminals & IDC Connectors

## .156" (3.96mm) Headers, Housings and Crimp Terminals



- Wire-to-board applications
- End-to-end stackable styles
- Insulator: polyester, UL 94V-0
- Housing: nylon, UL 94V-0

\* Web Code: HHT

### Headers

#### Straight Friction Lock – Brass/Tin (Fig. 1)

Part No.	Mfr.	Product No.	Pos.	1	10	100
879887	Molex	26-60-4030	3	\$.35	\$.25	\$.19
104792	ValuePro	LMH4	4	\$.35	\$.25	\$.19

#### Right Angle Friction Lock – Brass/Tin (Fig. 2)

Part No.	Mfr.	Product No.	Pos.	1	10	100
879861	Molex	26-60-4020	2	\$.25	\$.19	\$.15
797179	Molex	26-64-5020	2	\$.29	\$.25	\$.22

### Housings

#### With Locking Ramp (Fig. 3)

Part No.	Mfr.	Product No.	Pos.	1	10	100
104433	ValuePro	7900F-3	3	\$.12	\$.10	
463435	Molex	09-50-3031	3	\$.19	\$.12	
236161	TE Conn.	640250-4	4	\$.19	\$.15	
463443	Molex	09-50-3041	4	\$.19	\$.15	
104716	ValuePro	7900F-4#	4	\$.12	\$.09	
104732	ValuePro	7900F-6	6	\$.22	\$.19	
463486	Molex	09-50-3081	8	\$.35	\$.29	

# Use with crimp pin (P/N 78319)

### Crimp Terminals

Part No.	Mfr.	Product No.	Plating	AWG	10	100
736544	Molex	08-50-0189	A	18-20	\$.12	\$.10
736561	Molex	08-52-0072	B	18-20	\$.12	\$.10
736587	Molex	08-52-0113†	A	18-20	\$.12	\$.10
78319	ValuePro	JS-5001-T-R	A	—	\$.08	\$.06
736481	Molex	08-50-0106	A	18-24	\$.10	\$.08

†Trifurcon, cat ear, cut tape

## molex® MX150 Housings

- Automotive applications
- Wire to wire connection
- Operating temp.: -40°C to +125°C
- Pitch: 2mm, 3.5mm
- Voltage: 250VDC
- Dielectric withstanding voltage: 500VDC

\* Web Code: MQZ

Part No.	Mfr.	Part No.	Description	1	10	25
2232745		33472-1201	12 pos, 3.5mm F	\$1.95	\$1.75	\$1.49
2232753		33476-1711	16 pos, 1.5mm F	2.95	2.49	1.95

## molex® MX150 Crimp Terminals

- Automotive applications
- † Material/plating:  
A: High performance alloy/tin  
B: Brass/gold over nickel

\* Web Code: MQZ

Part No.	Mfr.	P/N	M/F	Material†	AWG	1	10	100
2232585		33012-1002	F	A	16-20	\$.25	\$.15	\$.09
2232577		33000-1002	M	A	16,18,20	\$.25	\$.15	\$.09
2232569		31296-0004	M	B	18-20	\$.25	\$.15	\$.12

## .100" (2.54mm) Keyed Shrouded Headers & Connectors

### CD-ROM 4-Pin

- Low profile
- Voltage rating: 250VAC/DC
- Current rating: 3A AC/DC
- Insulation res.: 1000MΩ min.
- Pin material: tin-plated brass
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding voltage: 1000VAC/ 1 min.
- Recommend crimp tool P/N 99443, pg 119

\* Web Code: XAW

Part No.	Description	1	10	100
152741	Straight header	\$.45	\$.39	\$.35
152726	Right angle header	.49	.45	.39
152734	Single with latch†	.59	.55	.49
181673	Female pins	*	.09	.07

† P/N 152734 requires 4 pins (P/N 181673)

## .100" (2.54mm) Female Header Receptacles

- Gold-plated contacts

\* Web Code: RAH



### Single Row Straight (Top Entry) – Fig. 1

Part No.	Mfr.	Contacts	1	10	100
2169758	Adam Tech	4	\$.55	\$.49	\$.45
2144614	Adam Tech*	6	\$.55	\$.49	\$.45
70755	ValuePro	8	\$.55	\$.45	\$.35
2144631	Adam Tech*	8	\$.59	\$.49	\$.39
2259761	ValuePro	9	\$.49	\$.45	\$.39
2172560	ValuePro	10	\$.59	\$.49	\$.39
2177627	Adam Tech*	10	\$.79	\$.69	\$.59
200783	ValuePro	12	\$.69	\$.59	\$.49
308592	ValuePro	16	\$.99	\$.89	\$.75
308567	ValuePro	20	\$.99	\$.89	\$.79
2168173	Adam Tech*	40	1.09	\$.99	\$.85

\*15mm long square leads

### Double Row Straight (Top Entry) – Fig. 2

Part No.	Mfr.	Contacts	1	10	100
2229319	Arndt	6	\$.39	\$.35	\$.29
70721	ValuePro	16	\$.89	\$.79	\$.69
2203653	ValuePro	20	\$.99	\$.89	\$.79
70827	ValuePro	20	\$.95	\$.85	\$.75
105057	ValuePro	30	\$.99	\$.89	\$.79
163862	ValuePro†	34	\$.89	\$.79	\$.69
111705	Arndt	40	1.25	1.09	\$.79
2134395	Arndt#	40	1.09	\$.85	\$.75

†Tin-plated #Wire wrap leads (.475" L)

## IDC Connector Crimping Tools

- Use for IDC socket connectors
- Crimping distance: 27.5mm to 6mm (with attachment)
- Size: 9.2" L x 3.0" W
- Weight: 1.1 lbs.

\* Web Code: 2156033

73252: IDC attachment included

2156033: Dual slot DIP attachment included

Part No.	Mfr.	Part No.	1	10	25
73252		HT-214	\$14.95	\$13.49	\$11.95
2156033		HT-214D	18.95	16.95	15.49

## .100" (2.54mm) Low Profile Male Shrouded Headers

### Straight & Right Angle Double Row

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Contact: phosphor bronze, gold plated
- Features: UL recognized CSA certified; 0.025" square post mates with sockets on 0.100" x 0.100" grid
- Use with IDC socket connectors, below

\* Web Code: JAH

Part No.	Cross Ref. No.	Pos.	1	10	100
67812	7110-10SG	10	\$.65	\$.55	\$.45
2100304	7110-14SG	14	\$.45	\$.39	\$.35
2167947	BHR-16-HUA†	16	\$.35	\$.29	\$.25
68180	7110-16SG	16	\$.69	\$.59	\$.49
68292	7110-20SG	20	\$.69	\$.59	\$.49
68372	7110-26SG	26	\$.65	\$.55	\$.45
68583	7110-34SG	34	\$.89	\$.79	\$.69
181105	7110-40SG	40	\$.99	\$.89	\$.79
2100312	7110-50SG	50	1.09	\$.99	\$.89

†Manufacturer: Adam Tech

## .100" (2.54mm) Straight & R/A Male Headers

### Double Row w/ Standard Latch

- 0.1" contact center
- Mount vertical
- Keying slot
- Use w/ IDC socket connectors, above right

\* Web Code: VAQ

Part No.	Description	1	10	100
117664	10-pin male header	\$.59	\$.49	\$.45
71830	20-pin male header	\$.99	\$.89	\$.79
2076375	20-pin male header*	1.49	1.25	1.09
72216	50-pin male header	1.75	1.59	1.45

\*Right angle (PCB mounted)

## .100" (2.54mm) IDC Socket Connectors

### Double Row

- Current rating: 1A
- Mates with 2 rows of .025" sq. or dia. posts on patterns of .100" centers (male headers, pg 51)
- Contact material: phosphor bronze w/ 1μ" gold flash on mating area, tin plated on termination area
- Industry standard IDC socket (plastic)
- Temperature rating: -55°C to +105°C
- Use crimp P/N 73252, below left
- Include strain relief

\* Web Code: QAE

Part No.	Cross Ref. No.	Contacts	1	10	100
2203910	8000-6R	6	\$.25	\$.19	\$.15
32492	8000-10	10	\$.29	\$.25	\$.19
153948	8000-14	14	\$.45	\$.39	\$.35
119467	8000-16	16	\$.39	\$.35	\$.29
32522	8000-20	20	\$.45	\$.39	\$.35
32564	8000-26	26	\$.49	\$.45	\$.39
32644	8000-34	34	\$.55	\$.49	\$.45
32679	8000-40	40	\$.69	\$.65	\$.59
32708	8000-50	50	\$.69	\$.65	\$.59

### Non-Polarized

Part No.	Cross Ref. No.	Contacts	1	10	100
138376	8000-10NE	10	\$.25	\$.19	\$.15

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Connectors, Headers, Plugs & Sockets

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## .100" (2.54mm) IDC & Card Edge Ribbon Connectors

### Center and Military Polarized Receptacles

- Accepts 28-26AWG solid or stranded cables
- Contact current rating: 1A continuous
- Housing, cover: 94V-0 rated thermoplastic, black
- Contacts: phosphor bronze, duplex plating

#### Contact Plating:

A: 15µ" gold, 100µ"-200µ" tin

B: 15µ" gold, 100-200µ" tin lead, all over 50µ" min. nickel

C: 30µ" gold, 100-200µ" bright tin lead, all over 50µ" nickel



\*Web Code: RDM

Part No.	Mfr.	Mfr. Part No.	Pos.	Plating	1	10	100
525309	TE	746285-1	10	B	\$1.25	\$1.09	\$ .99
742215	TE	1658621-1	10	A	.99	.89	.79
525325	TE	746285-3	16	B	1.59	1.45	1.29
525333	TE	746285-4	20	B	1.49	1.25	1.09
2235903	Kobi	164-0820E†	20	C	1.49	1.25	1.09
2218134	TE	622-2630*	26	C	1.09	.99	.85
525413	TE	746288-6	26	C	1.95	1.75	1.49
2235911	Kobi	164-0840E†	40	C	1.75	1.59	1.45

\*Color: blue †Edge ribbon

### Strain Relief for NOVO Receptacle

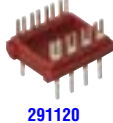
Part No.	Mfr.	Mfr. Part No.	Pos.	Order in multiples of	10	100
526045	TE	499252-5	10		\$ .19	\$ .15

## ARIES DIP Headers

\*Web Code: XBS

### Series 600 Headers w/ Coined Contacts

- Standard body material is red UL 94-HB glass filled nylon
- High temperature cover/body material is black UL 94V-0 4/6 nylon
- Contact plating: 100µ" min., tin
- Contact rating: 2A
- Operating temperature: 221°F (105°C) max.
- Fork contacts: accept up to .025" (.64mm) dia. leads



291120

Part No.	Mfr. Part No.	Pos.	Width*	1	10	100
291120	08-600-10	8	0.3"	\$1.19	\$ .99	\$ .89
291312	14-600-10	14	0.3"	1.75	1.49	1.25
291574	16-600-10	16	0.3"	1.95	1.75	1.49

\*Center to center pin width

## CA .100" DIP Header Plug

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: 0.188"
- 0.1" spacing between leads

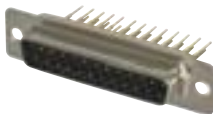


\*Web Code: XBS

Part No.	Mfr. Part No.	Pins	Width	1	10	100
37130	14P-2	14	0.3"	\$1.09	\$ .99	\$ .79

## Wire-Wrap Female D-Sub Connector

- Vertical panel mount
- Wire-wrap connection
- Female 25 positions
- Dimensions:  
2.0"L x 0.5"W x 0.28"H
- Direct cross to NorComp 172-025-242R001



Part No.	Cross Ref. No.	1	10	100
2233941	DB220-PF25GF-H	\$6.95	\$6.25	\$5.49

## .100" (2.54mm) IDC DIP Flat Cable Plugs

- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Uses 28 AWG flat ribbon cable, pg 43
- Plastic with gold-plated contacts
- Current rating: 1A

\*Web Code: KEF

Part No.	Cross Ref.	Width	Contacts	1	10	100
42658	8200-14	0.3"	14	\$.59	\$.49	\$.39
42674	8200-16	0.3"	16	.65	.59	.55
104097	8200-20	0.3"	20	.65	.55	.49
42691	8200-24	0.6"	24	.75	.65	.49
42712	8200-40	0.6"	40	1.09	.99	.89

\*PCB Connectors — Enter Web Code EEN

## CINCH Card Edge Connectors

### .100" (2.54mm) Density Solder Tab/DIP Terminals

- Fits all PC boards
- Gold plated contacts

\*Web Code: XEE

Part No.	Positions	Terminal	1	10	100
2203012	43/86	Solder tab	\$.99	\$.85	\$.69
2133536	60/120	DIP solder*	.99	.85	.69

\*Without mounting ears, mfr.: AMP/Tyco

## 3-Contact Wire-to-Board Connector Socket

### 3-Way IDC Connector

- .100" (2.54mm) pitch
- 26 AWG wire
- Tin-plated copper alloy contacts
- Material housing: 6/6 nylon
- 3.5A max. current per contact
- 300V max. voltage rating
- 2kVAC min. dielectric voltage
- Non-polarized
- No. of rows: 1

NEW MARKED IN PINK

Part No.	Mfr. Part No.	1	10	100
2235065	CE100F26-3-D	\$.29	\$.19	\$.15

## CINCH Jones Plugs

### Series 300 Multiple-Density Solder-Eyelet Connectors

- Insulation material: molded monoblock, black phenolic
- Contact material: phosphor bronze
- Contact plating: cadmium
- Operating voltage: 250VAC max.
- Contact resistance: 16mΩ max.
- Current rating: 10 amps
- 2 position is round
- Hood material: UL 94V-0 rated thermoplastic

#### Plugs with Hood and 180° Clamp

Part No.	Mfr. Part No.	Contacts	1	10
248760	P-302H-CCT	2	\$4.95	\$4.49
248786	P-304H-CCT	4	5.49	4.95
248794	P-306H-CCT	6	5.95	5.39

\*Multicolor Ribbon Cables — Enter Web Code WCF

## DIP LOW-PROFILE IC SOCKETS

- Plating: 60µ" tin
- Width: 0.3"

\*Web Code: QAF

Part No.	Mfr. Part No.	Pos.	1	10	100
2246055	1-2199298-1	6	\$.19	\$.16	\$.13
2246063	1-2199298-2	8	.22	.20	.19
2246071	1-2199298-3	14	.31	.28	.25
2246080	1-2199298-4	16	.32	.29	.26
2246098	1-2199298-5	18	.31	.28	.25
2246101	1-2199298-6	20	.29	.26	.23

## .100" (2.54mm) Non-Polarized Connector Housings & Crimp Pins



- Mates with 0.025" square post on pattern of 0.100" centers (male headers, pg 51)
- Housing material: plastic
- Pin material: brass/tin plated
- Temp. rating: -55°C to +105°C
- Use crimper P/N 159266, pg 119
- Current rating: 1A
- 26-22 AWG

\*Web Code: YAL

### Single Row

\* Order in multiples of 10

Part No.	Cross Ref. No.	Contacts	1	10	100
100812	SCH2	2	\$.22	\$.19	
157383	SCH3	3	.39	.35	.29
100803	SCH4	4	.39	.35	.29
163686	SCH5	5	.35	.29	.25
103212	SCH6	6	.49	.45	.39
2259753	CH328-07-R	7	.45	.39	.35
103203	SCH8	8	.45	.39	.35
2259761	CH328-09-R	9	.49	.45	.39
103191	SCH10	10	.59	.55	.49
103182	SCH20	20	.65	.59	.55
103158	SCH36	36	.69	.59	.55

### Double Row

\*Web Code: ZBQ

103254	DCH8	8	\$.39	\$.35	\$.29
157421	DCH10	10	.45	.39	.35

### Crimp Pins for Single/Double Row Housings

- Order in multiples of 10

\*Web Code: XAL

Part No.	Cross Ref. No.	Description	10	100	500
100766	FCH1	Female pin	\$.19	\$.15	\$.12
145358	MCH1	Male pin	.19	.15	.12

## AMPMODU™ .100" (2.54mm) Receptacle Housing & Contacts

### Single Row, Non-Polarized, Crimp Snap-In Housing (MOD IV)

- No PC with UMN
- Black thermoplastic, flame retardant



Part No.	Mfr. Part No.	Pos.	Width	1	10	100
526871	87499-3	2	0.205"	\$1.09	\$ .99	\$ .89

### Standard Pressure Receptacle Contacts (MOD IV)

- Material: phosphor bronze
- No PC with UMN
- Plating:
- Short point; 22-26 AWG; 50µ" nickel entire area; 15µ" gold in contact area



Part No.	Mfr. Part No.	1	10	100
895844	104480-3	\$.25	\$.09	\$.07

\*Gray Ribbon Cables — Enter Web Code WBX



# DIN, USB & CPC Connectors & Sockets

## Mini DIN & DIN Panel Mount Female Sockets

- With solder lugs
- Metal body

\*Web Code: FAB



Part No.	Product No.	Fig.	Description	1	10	100
2235971	DINJ3	1	3-pin DIN	\$1.95	\$1.79	\$1.59
2272743	DINJ4	1	4-pin DIN	2.09	1.89	1.69
2205501	57HB5F*	1	5-pin DIN	1.89	1.69	1.39
15844	DINJ5	1	5-pin DIN	2.09	1.89	1.65
15852	DINJ6	1	6-pin DIN	2.09	1.89	1.65
15861	DINJ8	1	8-pin DIN	2.25	1.95	1.85
2272791	MD-30SN	1	3-pin mDIN	1.35	1.19	1.09
2205510	MD-40SN	1	4-pin mDIN	1.49	1.35	1.19
2272799	MD-50SN	1	5-pin mDIN	1.69	1.49	1.29
2272807	MD-60SN	1	6-pin mDIN	1.79	1.59	1.39
2272815	MD-80SN	1	8-pin mDIN	1.95	1.75	1.49
2272687	MD-30CV	2	3-pin mDIN	1.59	1.45	1.25
2272711	MD-40CV	2	4-pin mDIN	1.69	1.55	1.29
2272695	MD-50CV	2	5-pin mDIN	1.75	1.59	1.35
2246531	A170718LH†	2	6-pin mDIN	1.49	1.25	1.09
2076762	MD-60CV	2	6-pin mDIN	1.79	1.59	1.39
2272703	MD-80CV	2	8-pin mDIN	1.95	1.75	1.49
2182961	M14HNV	3	M14x1.0 nut	.49	.45	.39

\*.04" recessed frame †w/ plastic hex nut ✓ Metal hex nut for fig. 2 mDIN

## Mini DIN & DIN PC Mount Female Sockets

- Set back: 0.5"

\*Web Code: DMS



### Shielded, Right Angle mini DIN

Part No.	Product No.	Description	1	10	100
140791	MD-40SM	4-pin mini DIN	\$1.15	\$ .99	\$ .89
119475	MD-60SM	6-pin mini DIN	1.25	1.09	.99
207722	MD-80SM	8-pin mini DIN	1.39	1.19	1.05

### Unshielded, Right Angle DIN

Part No.	Product No.	Description	1	10	100
2272767	SDS-30J	3-pin DIN	\$1.19	\$ .99	\$ .85
2178531	SDS-40J	4-pin DIN	1.05	.89	.79
29399	SDS-50J	5-pin DIN	1.05	.89	.75
2272783	SDS-60J	6-pin DIN	1.29	1.15	.99
29410	SDS-80J	8-pin DIN	1.59	1.45	1.29

## Amphenol® RF Military Connectors

- Solder terminals • Aluminum alloy
- Straight plug or Jamnut receptacle
- Military spec: MIL-C-26432-1
- Electrically conductive bayonet lock connector • Hermetic sealed
- General duty back shell • Pin and socket contacts

Part No.	Mfr. Part No.	1	10	25
2231021	PT06A-14-5S	\$19.95	\$17.95	\$15.95
2232403	PT06E-18-32P	29.95	27.95	25.95
2231013	PT07A-12-10P	19.95	17.95	15.95

## CPC Circular Plastic Connectors

### Series 1 — Standard density, signal and low-current applications

- Accepts type III+, high-current type II and subminiature coax contacts
- Voltage rating: 600V (UL)

### Receptacles — Panel Mount

Part No.	Mfr. P/N	Size/Pos.	Gender	Mating Connector	1	10
495218	206430-1	11-4	Reverse	495091	\$3.29	\$2.95
495162	206061-1	11-4	Standard	495082	3.49	3.19
495234	206705-1	13-9	Standard	495103	3.49	3.19
421382	206036-1	17-16	Standard	495322	3.49	3.19

\*Web Code: WBK

## ADAM TECH Displayport Receptacle

Displayport receptacles are royalty free products that can be used in any application where an HDMI connection was previously required.

- 15µ gold plating

\*Web Code: DPP



Part No.	Mfr. Part No.	Description	Type	Mounting Style	1	10	100
2114247	MDPC-S-RA	Mini displayport, receptacle, right angle	DIP	Through hole	\$2.49	\$2.25	\$1.95

## ADAM TECH USB-A & B 1.0 & 2.0 Female Connectors

\*Web Code: DAZ



Part No.	Mfr.	Product No.	Description	1	10	100
2096181	Adam Tech	USB-A-S-RA	USB-A, right angle	\$ .55	\$ .49	\$ .45
2097011	Adam Tech	USB-A-S-VT	USB-A, vertical	.55	.49	.45
2234142	OST	USB-A1VSW6-S	USB-A, vertical	.49	.45	.39
161024	ValuePro	1040	USB-A 1.0	.89	.79	.69
2076551	Kobiconn	UAR64-8W2100	USB-A 2.0, dual port	.69	.59	.29
2096261	Adam Tech	MUSB-B5-S-RA-SMT	Mini USB-B, right angle, surface mount	.99	.89	.75
2096245	Adam Tech	USB-B-S-RA	USB-B, right angle	.45	.39	.35
230958	Adam Tech	USB-B-S-RA-WT	USB-A 2.0, right angle, white insulator	.99	.89	.79

## JAMECO ValuePro DIN Plugs

\*Web Code: DAV

15887

- Solder barrels w/ strain relief • See pg 42 for cable

Part No.	Pins	Type	1	10	100
2272719	3	Mini DIN plug	\$1.39	\$1.25	\$1.09
2272727	4	Mini DIN plug	1.45	1.29	1.15
2272735	5	Mini DIN plug	1.49	1.35	1.19
142262	6	Mini DIN plug	1.29	1.09	.89
111878	8	Mini DIN plug	1.59	1.45	1.29
2272759	3	DIN plug	1.25	1.09	.95
2272751	4	DIN plug	1.29	1.15	.99
15879	5	DIN plug	1.39	1.19	1.05
15887	6	DIN plug	1.39	1.19	1.05
2178638	6	DIN plug*	1.49	1.25	1.09
15895	8	DIN plug	1.49	1.25	1.09

\*Nickel plated diecast handle

## TE Circular Cable Clamps

Provides strain relief and can be used in all series receptacles and plugs.

- Material: thermoplastic black, UL94V-0 rated (plastic); zinc alloy (metal)

\*Web Code: OLI



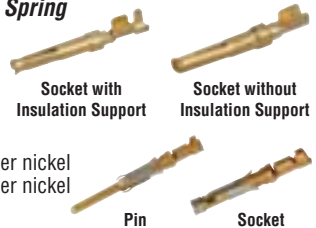
Part No.	Mfr. Part No.	Shell Size	Cable OD (max.)	1	10
494039	206062-6	11*	.329"	\$4.49	\$3.95
745441	206062-4	11†	.329"	3.59	3.29
494055	206966-1	13	.453"	4.49	3.95
494063	206070-1	17	.453"	4.49	3.95
749812	206070-8	17	.453"	2.95	2.75

Screw length: \*.375" †.500"

## TE CPC Contacts

### Type III+ Snap-In Crimp Pins with Retention Spring

\*Web Code: LEF



- Finish:  
A: 30µ" gold over nickel  
B: 15µ" gold over nickel  
C: Tin-lead
- Crimp type
- Contact body: brass or phosphor bronze

Part No.	Mfr. P/N	AWG	Finish	Type	1	10
526441	1-66361-1	18-14	A	Pin	\$ .95	\$ .85
526424	66180-1*	18-16	A	Pin	.99	.89
526432	66181-1	18-16	A	Socket	1.59	1.45
526459	66103-3	24-20	B	Pin	.65	.55
526563	1-66103-5	24-20	C	Pin	.55	.49
526379	66105-3	24-20	B	Socket	.69	.65
526504	1-66105-6	24-20	C	Socket	.65	.59

\*Solder type

### Size 20DF Contacts

Part No.	Mfr. P/N	AWG	Finish	Type	10	100
223298	66504-9	24-20	A	Socket	\$.22	\$ .19
223255	1-66504-0	24-20	B	Socket	.19	.15

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# BNC Connectors & Adapters

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Amphenol® RF

TE

JAMECO  
ValuePro

## Connectors and Adapters

Additional Amphenol 31 Series Plugs, Jacks and Adapters visit [Jameco.com](http://Jameco.com) and use the Web Code listed below

### Plugs

\*Web Code: BCP

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
223394	Amphenol	31-12	1	50Ω plug, clamp, for RG-59/62/71/140/210 (UG-260/U)	\$ .79	\$ .69	\$ .59
71482	Steren	200-145	2	50Ω plug, 3 pcs, crimp, for RG-58	1.25	1.09	.99
188306	Amphenol	31-320-RFX	2	50Ω plug, 3 pcs, crimp, for RG-58/58C/141/B7806A	2.95	2.59	2.29
2185694	Amphenol	31-321-1002	2	50Ω plug, 3 pcs, crimp	.65	.55	.45
2161246	ValuePro	B-111L-R-NGD	2	50Ω plug, 3 pcs, crimp, for RG-174/U; 188A/U; 316/U	1.09	.99	.89
2183664	Amphenol	31-325	2	50Ω plug, 3 pcs, crimp	1.49	1.25	1.09
71271	Steren	200-143	2	75Ω plug, 3 pcs, crimp, for RG-59	.99	.89	.79
2205448	Amphenol	31-71032	2	75Ω plug, 3 pcs, crimp, for RG-59, double braided	1.95	1.75	1.49
2085052	Amphenol	31-71013	3	75Ω plug, 4 pcs, crimp, for RG-179/187	1.95	1.75	1.49
112110	ValuePro	G7409	3	50Ω male with pin and ferrule, for RG-174, 4 pcs.	1.49	1.25	1.09
2258620	Arndt	RG-6U-BNC	9	75Ω plug, 2 pcs, crimp, for RG-6U	.99	.89	.75
2258638	Arndt	RG-59U-BNC	4	75Ω plug, BNC compression fitting for RG59U	1.19	.89	.75
2185678	Amphenol	9350	5	50Ω plug, 6 pcs, crimp, for RG-6	.99	.89	.75

### Jacks

\*Web Code: BCJ

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
174290	ValuePro	TBC-090	6	Jack, chassis mount	\$1.25	\$1.09	\$ .99
355178	ValuePro	31-221	7	50Ω jack, panel mount, solder cup (UG-1094/U) <sup>1</sup>	1.95	1.75	1.49
223520	Amphenol	31-236-RFX	8	50Ω bulkhead jack, panel mount, solder cup	1.49	1.25	1.09
2161297	ValuePro	B-235-1-R	8	50Ω bulkhead jack, solder terminal	1.25	1.09	.99
658427	Amphenol	112424	10	50Ω bulkhead jack, solder cup <sup>1</sup>	3.49	3.19	2.79
421331	TE Connectivity	227726-3	11	50Ω jack, isolated, solder	3.95	3.59	3.29
111561	Steren	200-148	12	50Ω jack, isolated, panel mount <sup>1</sup>	1.75	1.49	1.25
223360	Amphenol	31-5	13	50Ω jack, 6 pcs, RG-55/141/142/223/400	3.39	2.95	2.75
2185731	Amphenol	31-347	14	50Ω jack, 6 pcs, straight, bulkhead	.49	.45	.39
2185723	Amphenol	UG-909B/U	14	50Ω jack, 8 pcs, straight, panel mount	.79	.69	.59
2077618	ValuePro	BNC-CR	15	75Ω jack, chassis PCB receptacle	1.09	.99	.89
71590	ValuePro	G1B235	16	Jack, panel mount (UG-1094A) <sup>1</sup>	1.75	1.49	1.25
1952821	Foxconn	KDA1001-H0	17	Jack, right angle, plastic insulation, PC mount <sup>2</sup>	.59	.39	.35

Additional Panel Mounting Hardware: P/N 2186030 (1) (2 nuts, 1 washer) and P/N 2186021 (2) (2 nuts, 1 washer), see pg 78

### Adapters/Couplers

\*Web Code: BCC

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
127343	ValuePro	B-311	18	50Ω male/male coupler (UG-491B/U)	\$2.49	\$2.25	\$1.95
355152	ValuePro	31-219-RFX	19	50Ω straight adapter, jack-jack (UG-914/U)	2.95	2.75	2.49
72629	Steren	200-150	20	50Ω female to female/female T-adapter	1.49	1.25	1.09
2258611	Arndt	FFF-T-BNC	20	50Ω female to female/female T-adapter	.99	.89	.79
118594	Steren	200-155	21	50Ω male to female/female T-adapter	1.75	1.49	1.25
2258591	Arndt	MFF-T-BNC	21	50Ω male to female/female T-adapter	1.09	.99	.85
71909	Steren	200-160	22	Female/female coupler (UG-914)	1.09	.99	.89
2225924	ValuePro	MCI-7062-2500HM	23	50Ω female/female BNC bulkhead adapter	1.95	1.75	1.49
100597	ValuePro	40958-Y	24	50Ω male to female/female T-adapter (180°)	6.95	6.25	5.59
658451	Amphenol	112437	25	50Ω jack-to-jack bulkhead adapter (all 50Ω coax cables)	3.89	3.69	3.49
2258603	Arndt	MF-RA-BNC	26	50Ω male to female right angle	1.09	.99	.85
2085204	Amphenol	82-5590	27	Receptacle, twinaxial solder cup, front-mounted	.79	.69	.59
127352	ValuePro	B-412	26	50Ω male to female right angle (DG-306B/O)	3.95	3.59	3.25

Amphenol® RF

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ValuePro

## BNC Terminators

\*Web Code: BCT

Part No.	Manufacturer	Product No.	Description	1	10	50
71458	ValuePro	B-611T	50Ω BNC male terminator	\$1.49	\$1.25	\$1.09
2185993	Kings	MX554A/U	91Ω BNC straight terminator with cap and chain	.49	.39	.29
2084341	Amphenol	MX554A/U-100	100Ω BNC straight terminator with cap and chain	.79	.69	.59

### 75Ω "F" Connectors

NEW  
MARKED IN PINK

\*Web Code: FCA

Part No.	Manufacturer	Product No.	Description	1	10	50
2272079	Kobiconn	17PF059	Standard F-59/RG-59 connector	\$ .39	\$ .35	\$ .29
2272143	ValuePro	SNS1P6	75Ω, RG-6, compression Snap-N-Seal	.69	.65	.53



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18



Fig. 19



Fig. 20



Fig. 21



Fig. 22



Fig. 23



Fig. 24



Fig. 25



Fig. 26



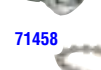
Fig. 27



71458



2185993



2084341



2272079



2272143

# BNC, RCA, SMA/SMB Connectors, Adapters & Terminal Blocks

JAMECO ValuePro

## BNC, RCA & SMA RF Adapters

\*Web Code: RFS

Part No.	Manufacturer	Product No.	Description	1	10	50
153454	ValuePro	SB-321	SMA female to BNC male	\$2.25	\$1.95	\$1.75
159469	ValuePro	CH-7830-N	SMA female to BNC female	3.19	2.89	2.59
153593	ValuePro	4288	SMA male to BNC male	2.95	2.59	2.29
159477	ValuePro	CH-7820-N	SMA male to BNC female	2.95	2.59	2.29
114789	ValuePro	BR312	RCA female to BNC male	1.95	1.75	1.49
114753	ValuePro	RB312	RCA male to BNC female	1.49	1.25	1.09
2258582	Arndt	RCA-M-BNC-F	RCA male to BNC female	.99	.89	.75
2178110	Pomona	1297	BNC female to 1/4" male 2 connector phone plug	13.95	13.49	12.95



JAMECO ValuePro

## 50Ω SMA/SMB Connectors

\*Web Code: SGX

Part No.	Manufacturer	Product No.	Description	Plating	1	10	50
153366	ValuePro	4804	Straight crimp type male plug (RG-174), 3 pcs.	Gold	\$2.95	\$2.65	\$2.39
145382	ValuePro	19-46G	Straight female PCB mount, 4 legs	Gold	2.75	2.49	2.25
159531	ValuePro	CH-7814#	Female panel mount, 4 mounting holes (G-58/174)	Gold	3.25	2.95	2.75
160013	ValuePro	CH-7818-N ✓	Panel mount feed thru, female-female	Nickel	3.95	3.59	3.29
153286	ValuePro	SMA-7813	Bulkhead solder female w/ washer, rear mount (RG-58/174)	Gold	3.25	2.95	2.75

# Solder cup ✓ Additional panel mounting hardware (2 nuts, 1 washer) P/N 2182611, see pg 78



Amphenol® RF

## SMA Adapters and Couplers

JAMECO ValuePro

\*Web Code: SGX

Part No.	Manufacturer	Product No.	Description	Plating	1	10	50
659041	Amphenol	132169	50Ω jack-to-jack adapter	Gold	\$5.95	\$5.39	\$4.79
659059	Amphenol	132170	50Ω jack-to-jack adapter, bulkhead feed-through	Gold	10.95	9.95	5.95
161294	ValuePro	S-311-G	Straight coupler male-male	Gold	2.95	2.65	2.39
161307	ValuePro	S-412-G	Right angle coupler male-female	Gold	4.95	4.49	3.95
153294	ValuePro	SMA-7817	Straight coupler female - jack-to-jack	Gold	2.49	2.25	1.95



For SMA, SMB and BNC Cables, see page 58

DINKLE OST

## 0.138" (3.5mm) to 0.200" (5.08mm) Terminal Blocks

UL SF DVE

\*Web Code: XBD

Part No.	Mfr.	Mfr. Part No.	Fig.	Term.	Terminal Spacing	Description	1	10	100
2094506	OST	OSTTE020161	1	2	0.138"/3.5mm	Top screw	\$.35	\$.29	\$.25
2094514	OST	OSTTE030161	1	3	0.138"/3.5mm	Top screw	.55	.49	.45
2124411	OST	OSTTE040161	1	4	0.138"/3.5mm	Top screw	.59	.55	.49
2094485	OST	OSTTA020161	3	2	0.197"/5.0mm	Top screw	.39	.35	.29
160785	Dinkle	EK500V-02P	4	2	0.197"/5.0mm	Top screw	.59	.55	.49
164794	OST	OSTTH020160	2	2	0.197"/5.0mm	Top screw	.55	.49	.45
99427	Dinkle	128V2P-R	5	2	0.197"/5.0mm	Top screw	.65	.45	.39
189676	OST	OSTTC020162	6	2	0.197"/5.0mm	Top screw	.45	.35	.29
161067	Dinkle	EK500A-02P	7	2	0.197"/5.0mm	45° angle screw	.75	.55	.49
2159656	Phoenix	SMKDSN1.5/2	11	2	0.197"/5.0mm	55° angle screw	.29	.19	.12
2094493	OST	OSTTA030161	3	3	0.197"/5.0mm	Top screw	.45	.39	.35
189668	OST	OSTTC030162	8	3	0.197"/5.0mm	Top screw	.45	.39	.35
99398	Dinkle	DT128V3P	5	3	0.197"/5.0mm	Top screw	.95	.85	.75
160793	Dinkle	EK500V-03P	4	3	0.197"/5.0mm	Top screw	.79	.69	.59
164806	OST	OSTTH030160	2	3	0.197"/5.0mm	Top screw	.75	.59	.55
161059	Dinkle	EK500A-03P	7	3	0.197"/5.0mm	45° angle screw	1.09	.99	.89
2124429	OST	OSTTA040161	3	4	0.197"/5.0mm	Top screw	.69	.65	.55
164815	OST	OSTOP240000	13	24	0.197"/5.0mm	1.3 x 1.3mm	1.39	1.25	1.09
2120567	OST	OSTYC022150	4	2	0.200"/5.08mm	Top screw	.55	.49	.39
2120647	OST	OSTTC022162	1	2	0.200"/5.08mm	Top screw	.39	.38	.25
2094581	OST	OSTTJ025153	9	2	0.200"/5.08mm	Top screw	.79	.69	.59
152347	OST	OSTTA024163	10	2	0.200"/5.08mm	Top screw	.59	.45	.35
2120575	OST	OSTYC032150	4	3	0.200"/5.08mm	Top screw	.69	.65	.59
2120655	OST	OSTTC032162	1	3	0.200"/5.08mm	Top screw	.49	.45	.39
152355	OST	OSTTA034163	10	3	0.200"/5.08mm	Top screw	.79	.69	.59
2094590	OST	OSTTJ035153	9	3	0.200"/5.08mm	Top screw	.99	.89	.79
2229685	Augat	332520004	9	4	0.200"/5.08mm	Top screw	.89	.79	.69
2235364	Wieland	25.340.0653.0	12	6	0.200"/5.08mm	Top screw	1.75	1.49	1.25
2124445	OST	OSTTA044163	10	6	0.200"/5.08mm	Top screw	.89	.79	.69

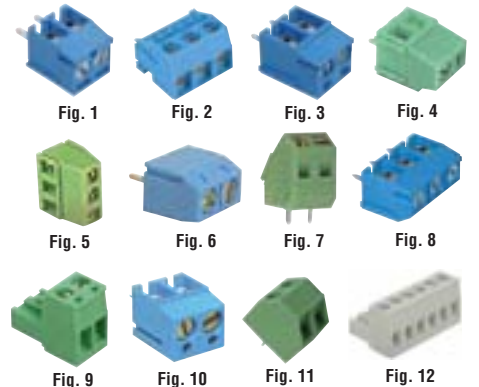


Fig. 13 (use w/ Fig. 4)

## DIN Rail-Mounted Terminal Block & DIN Rail

- Molded thermoplastic
- 12-22 AWG
- Spacing: 5.06mm (.199")
- UL rated voltage and current: 600V @ 20A



Part No.	Mfr. Part No.	Type	1	10	100
237083	41296.2	SR2.5	\$.99	\$.89	\$.75
248736	2094.0(1M)	TS35 x 7.5	8.95	7.95	6.95

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Terminal Blocks & Coax Cables

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## Standard Double Row Barrier Terminal Blocks

- Insulation: molded mono block, general purpose phenolic, black, UL94V-1
- Screw material: steel with nickel over copper flash plating

**NEW**  
MARKED IN PINK



230990

\*Web Code: YBM

### 140 Series 15A (5-40 x 3/16" BH screws)

- 3750-watts/terminal max.
- 16 AWG wire max. • Size: 0.88"W x 0.41"H

Part No.	Mfr. P/N	Pos.	Length	1	10	100
2172682	TDA-02*	2	1.42" ..	\$1.95	\$1.75	\$1.49
230973	2-140	2	1.41" ....	2.25	1.95	1.65
230990	4-140	4	2.16" ....	2.49	2.19	1.79
231010	6-140	6	2.91" ....	3.25	2.95	2.49
231036	8-140	8	3.66" ....	4.25	3.79	3.25
231052	10-140	10	4.40" ....	5.95	4.95	3.95
231061	12-140	12	5.17" ....	6.95	5.95	4.95

\*Manufacturer: Adam Tech

### 141 Series 20A (6-32 x 1/4" BH screws)

- 5000-watts/terminal max.
- 14 AWG wire max.
- Size: 1.13"W x 0.5"H

2100021

Part No.	Mfr. P/N	Pos.	Length	1	10	100
231351	2-141	2	1.63" ..	\$1.95	\$1.75	\$1.49
2100021	3-141	3	1.78" ....	2.95	2.49	1.95
231378	4-141	4	2.50" ....	2.95	2.49	2.09
231394	6-141	6	3.38" ....	3.95	3.35	2.65
231415	8-141	8	4.25" ....	4.95	4.29	3.49
231431	10-141	10	5.13" ....	5.95	5.29	4.39
231440	12-141	12	6.00" ....	6.95	5.95	4.95

### 142 Series 30A (8-32 x 5/16" BH screws)

- 7500-watts/terminal max.
- 10 AWG wire max.
- Size: 1.312"W x 0.625"H

Part No.	Mfr. P/N	Pos.	Length	1	10	100
441210	2-142	2	2.09" ..	\$2.95	\$2.39	\$1.95
440858	4-142	4	3.22" ....	3.95	3.59	2.95
440874	6-142	6	4.35" ....	6.95	6.29	5.25
440891	8-142	8	5.47" ....	7.95	6.95	5.59
441130	10-142	10	6.60" ....	9.95	9.19	7.95
441164	12-142	12	7.72" ....	10.95	9.95	8.19

## Terminal Block Jumpers

For connecting between adjacent terminals or alternate terminals.

- 2-position • Brass w/ nickel plating

659382

Part No.	Mfr. P/N	Description	1	10	100
659382	140J-1	140 series blocks ..	.39	.35	.29
448500	141J-1	141 series blocks ..	.49	.45	.35
448323	142J-1	142 series blocks ..	.69	.59	.49

## molex® Double Row Terminal Blocks

### .375" Double Row Low Profile

\*Web Code: YBM

- Wire AWG range: 12-24AWG
- Terminal: brass, nickel plated
- Insulator: thermoplastic, UL94V-0
- Screws: #6-32 BH screws, steel, zinc chromate plate

659411

Part No.	Mfr. Part No.	Positions	1	10	100
2272831	38770-0102	2 .....	\$1.95	\$1.49	\$1.29
659411	38770-0104	4 .....	2.95	2.39	1.95
2272839	38770-0106	6 .....	3.95	3.25	2.69
659454	38770-0108	8 .....	3.99	3.29	2.75
2272847	38770-0110	10 .....	4.49	3.59	2.99
2272855	38770-0112	12 .....	5.29	4.69	3.49

## Metric Tri-Barrier Single Row PC Terminal Strips

- Off center PC mount • Brass, tin-plated terminals
- Steel, nickel-plated screws
- UL/CSA recognized

\*Web Code: YBT

### DT39 Series

- Current rating: 20A @ 300V
- Wire gauge range: 12-22 AWG
- M3 screw size
- Pitch: 8.25mm
- Height: 12.7mm

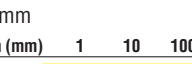
DT39 Series



### HB95 Series

- Current rating: 10A @ 250V
- Wire gauge range: 14-22 AWG
- M3.5 screw size
- Pitch: 9.5mm • Height: 14.3mm

HB95 Series



Part No.	Cross Ref.	Pos.	Lgth (mm)	1	10	100
2133616	DT39-B01W-06	6	50.6	\$1.75	\$1.49	\$1.25
2133624	DT39-B01W-08	8	67.2	1.95	1.75	1.49
2162628	HB951-08P	8	77.5	2.49	2.25	1.95

## Metric Double Row Terminal Blocks

- Body: black thermoplastic (UL94V-0)
- Terminals: brass tin plated
- Screws: steel nickel plated
- 12-18 AWG

\*Web Code: YBT

### 10A @ 600V

- Screw size: M3.0
- Size: 19.5mm W x 11.9mm H

207572

Part No.	Cross Ref.	Pos.	Lgth (mm)	1	10	100
2272863	GGE-10-2P	2	27 .....	\$ .89	\$ .79	\$ .69
208857	GGE-10-4P	4	55 .....	1.59	1.39	1.19
208865	GGE-10-6P	6	74 .....	1.95	1.75	1.49
2272871	GGE-10-8P	8	93 .....	2.75	2.49	2.25
208900	GGE-10-10P	10	112 .....	2.95	2.75	2.49
208882	GGE-10-12P	12	131 .....	3.25	2.95	2.75

### 20A @ 600V

- Screw size: M3.5 • Size: 22.0mm W x 13.2mm H

Part No.	Cross Ref.	Pos.	Lgth (mm)	1	10	100
207572	GGE-20-12P	12	150.7 ..	\$3.49	\$3.19	\$2.79

## European Terminal Blocks


- Number of poles: 12
- Terminal insert: brass metal alloy, nickel plated
- Material: polyamide 66 (nylon 66), UL94V-2, natural
- Screws: zinc plated, yellow chromed, PA8 (M2.6), PA10, ES08, ES10 (M3.0), PA12 (3.5)

215011


\*Web Code: CBJ

Part No.	Product No.	Amps	AWG	1	10	100
2259260	ES0800/12DSFB	\$ 10	16-20	\$1.49	\$1.25	\$1.09
2120170	ES1000/12DS*	\$ 20	16-20	1.95	1.75	1.49
215011	PA7DS†	20	12-22	1.95	1.75	1.59
215029	PA9DS†	30	10-22	2.49	2.25	1.95
215037	PA12HDS†	35	10-22	3.25	2.95	2.65

\*300V \$ Mfr.: On-Shore Technology †450V



# TERMINAL BLOCKS



**899327**

- 2 positions
- Tubular clamp
- AWG: 10-20
- Voltage: 600V
- Current: 30A
- Rating: UL94V-0

Part No.	Mfr. Part No.	1	10	100
<b>899327</b>	1546147-1 .....	<b>\$1.95</b>	<b>\$1.75</b>	<b>\$1.59</b>
<b>1962308</b>	1546234-1 .....	<b>2.39</b>	<b>2.15</b>	<b>1.95</b>

## SMA/SMB 50Ω Coax Cables

\*Web Code: BZM



Fig. 1



Fig. 2

Fig. 1: SMA male to SMA male

Fig. 2: SMB plug female to SMB plug female

Part No.	Cable	Fig.	Lgth (ft.)	1	10	50
169801	RG-174	1	0.5 ..	\$3.29	\$2.95	\$2.75
163855	RG-174	1	1 .....	4.09	3.69	3.35
153382	RG-174	1	2 .....	5.25	4.75	4.25
153391	RG-174	1	4 .....	5.49	4.95	4.49
159451	RG-174	1	6 .....	7.29	6.95	6.25
175178	RG-174	2	1 .....	4.95	4.49	3.95

## BNC Male Coax Cables

\*Web Code: BBD



## RG58/U 50Ω Network & Oscilloscope Cables

Part No.	Cross Ref.	Length	1	10	100
102315	CRG58-1	1.5' .....	\$4.09	\$3.69	\$3.35
256743	CBB-224-24	2' .....	4.25	3.95	3.59
11404	CRG58-3*	3' .....	4.49	4.19	3.75
102331	CRG58-6*	6' .....	4.75	4.35	3.95
180822	CRG58-10	10' .....	4.95	4.59	4.09
102350	CRG58-12	12' .....	5.35	4.85	4.35
169818	CRG58-15	15' .....	5.95	5.39	4.79
102357	CRG58-25*	25' .....	6.95	6.25	5.59
102365	CRG58-50*	50' .....	7.95	6.95	6.25
102381	CRG58-100*	100' .....	9.95	8.95	7.95

\*Manufacturer: Steren

## RG59/U 75Ω CATV & Video Patch Cord

Part No.	Cross Ref.	Length	1	10	100
85543	CRG59-6	6' .....	\$3.95	\$3.59	\$3.29

## RG174/U 50Ω Network & Oscilloscope Cables

Part No.	Cross Ref.	Length	1	10	50
111473	RG174U3	3' .....	\$4.95	\$4.49	\$3.95
111482	RG174U6	6' .....	6.95	6.25	5.89

## EGE Telecom Splice Connectors

Provides clean, solid and rapid connection of wires to keep lines free of noise



169747

169755

169755: Y-type

Part No.	Color	AWG	Conductors	1	10	100
169747	Yellow	22-26	2 .....	\$ .25	\$ .19	\$ .15
169755	Red	19-26	3Y .....	.25	.19	.15

## Wire Connectors

- UL approved nylon 66, 94V2
- Strip wire before application
- Twist on type



140717

182511

140717: PE – metal inside

Order in multiples of 10

Part No.	Description	10	100	1000
140717	3-wire IDC 22-18 AWG .....	\$ .15	\$ .12	\$ .09
2239154	3-wire IDC 18-14 AWG .....	.15	.12	.09
182511	Wire nut 16 AWG .....	.12	.09	.07

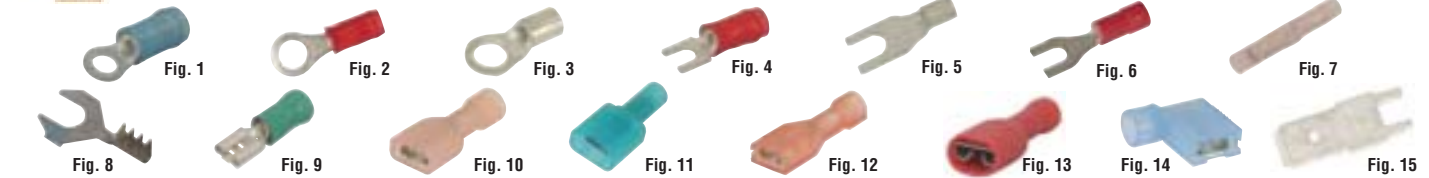


# Solderless Terminals & Miniature Basic Switches



## Terminals, Splices and Quick Connect/Disconnect

JAMECO ValuePro \*Web Code: TSQ



### Ring Tongue Terminals

Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	1	10	100
103684	ValuePro	2048	2	Plastic	#6	22-16	Red	.....	* \$ .21	\$ .17
302666	TE Conn.	36152	2	Plastic	#6	22-16	Red	.....	.29	.25 .19
302674	TE Conn.	31890	2	Plastic	#8	22-16	Red	.....	* .19	.15
844289	TE Conn.	34107	3	Uninsul.	#6	22-16	—	.....	.25	.19 .15
302720	TE Conn.	320619	1	Nylon	#6	16-14	Blue	.....	* .19	.15
2160569	ValuePro	320565VP	2	Nylon	#8	16-14	Blue	.....	.25	.15 .12
302738	TE Conn.	320565	2	Nylon	#8	16-14	Blue	.....	.29	.25 .19
2144681	Panduit	PV10-8R-D	2	Vinyl	#8	12-10	Yellow	.....	* .09	.07

### Spade Tongue Terminals

Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	1	10	100
2160577	ValuePro	34541VP	4	Nylon	#6	22-16	Red	.....	* \$ .15	\$ .13
302877	TE Conn.	34541	4	Nylon	#6	22-16	Red	.....	.25	.22 .19
103588	ValuePro	SVS1-3.7	4	Vinyl	#6	22-16	Red	.....	* .19	.15
2160631	ValuePro	323127VP	5	Uninsul.	#6	22-16	—	.....	* .12	.09
842929	TE Conn.	323127	5	Uninsul.	#6	22-16	—	.....	* .19	.15
2129764	ETCO	PS55-130THB	8	Uninsul.	#6	22-16	—	.....	.25	.04 .03
502879	Molex	19144-0001	6	PVC	#5-6	18-22	Red	.....	* .19	.15
2160585	ValuePro	35559VP	4	Nylon	#6	16-14	Blue	.....	* .19	.15
103596	ValuePro	SVM-2	4	Vinyl	#8	16-14	Blue	.....	* .15	.12
2234151	Arndt	4FRJ6	4	Vinyl	#10	16-14	Blue	.....	.25	.22 .19
2231881	Panduit	PV10-10LFB4†	4	Vinyl	#10	12-10	Yellow	.....	.35	.29 .25
302949	TE Conn.	326859	4	Nylon	#12	12-10	Yellow	.....	.35	.29 .25

†Reel

### Quick Connect/Disconnect Male Terminals Insulated

Part No.	Mfr.	Mfr. Part No.	Fig.	Insul.	Size (ins.)	AWG	Color	1	10	100
489432	Molex	19001-0003	11	Nylon	.187 x .020	22-18	Red	..	\$ .29	\$ .25 .22
489723	Molex	19004-0001	11	Nylon	.250 x .032	22-18	Red	....	.25	.19 .15
489731	Molex	19004-0005	11	Nylon	.250 x .032	16-14	Blue	....	.35	.29 .25

## Solderless Terminal Kit

- Clear, hinged plastic box
- Use crimping tool P/N 72996, right

**170 Terminals and Connectors!**

Part No.	Cross Ref. No.	1	10	25
10990	G1C175-R	\$15.95	\$13.95	\$12.49

Qty.	Wire Description	Blade Gauge	Size	Qty.	Wire Description	Blade Gauge	Size
10	Male spade	22-16	1/4"	10	Ring terminal	16-14	#10
10	Male spade	16-14	1/4"	5	Ring terminal	12-10	#10
10	Female spade	22-16	1/4"	5	Ring terminal	12-10	#14
10	Female spade	16-14	1/4"	10	Spade terminal	16-22	#6
10	Ring terminal	22-16	#6	10	Spade terminal	16-22	#8
10	Ring terminal	22-16	#8	10	Spade terminal	16-14	#10
10	Ring terminal	16-14	#10	10	Butt connect	16-22	—
15	Ring terminal	16-14	#6	10	Butt connect	16-14	—
10	Ring terminal	16-14	#8	5	Butt connect	12-10	—

## Solderless Terminal Crimping Tool

- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow
- Size: 9.0"L x 2.0"W



Part No.	Mfr. Part No.	1	10	25
72996	HT303	\$25.95	\$22.95	\$18.95

See page 119 for crimping hand tools

## OMRON Miniature Basic Switches

- 3 terminals: common; normally open; normally closed
- Size: 1.10"L x 0.40"W x 0.63"H



\*Web Code: UEM

\*Large Basic Switches — Enter Web Code RBS



Part No.	Manufacturer	Product No.	Fig.	Contact Form	Contact Rating	Actuator Type	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	10	100
2076244	Honeywell	V3-23-D8	1	SPST-NO	5A @ 125VAC	Pin plunger	50M/300k	0.183" quick connect	\$1.25	\$ .99	\$ .89
2178937	Zero Plus	1033013	1	SPST-NO	15A @ 250VAC	Pin plunger	10M/100k	0.250" quick connect	.59	.49	.39
2162804	Mulon	M8-1P1	2	SPDT	5A @ 250VAC	Pin plunger	10M/1M	0.250" quick connect	.59	.49	.39
187792	Omron	V-10G2-1C24K	3	SPDT-NC	0.1A @ 125VDC, 10A @ 250VAC	Hinge lever (1.08"L)	50M/300k	0.183" quick connect	2.09	1.95	1.85
187805	Omron	V-10G3-1C24K	4	SPDT-NC	0.1A @ 125VDC, 10A @ 250VAC	Long hinge lever (2.01"L)	50M/300k	0.183" quick connect	2.29	2.09	1.89
2117333	ValuePro	VM-05S-03D0-Z	4	SPDT-NC	5A @ 125VAC/250VAC	Long lever (2.0"L)	50M/300k	0.185" quick connect	1.75	1.49	1.25
2178929	Mulon	M8-1P1DS1	3	SPDT-NC	5A @ 250VAC	Short lever (0.6"L)	50M/300k	0.250" quick connect	.75	.65	.55
159572	Highly Electric	VS10N051C	5	SPDT-NC	10A @ 125VAC/250VAC	Hinge roller (0.60"L)	10M/100k	0.250" quick connect	1.95	1.75	1.49
159581	Highly Electric	VS10N021C2	5	SPDT-NC	10A @ 125VAC/250VAC	Hinge lever (1.36"L)	10M/100k	0.183" quick connect	1.99	1.79	1.55
1844281	Microswitch	BA-2RV-A2	6	SPDT-NC	20A @ 125VAC/480VAC	Long lever (2.87"L)	20M/100k	Screw	6.95	6.25	5.59

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

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# Basic & Slide Switches

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY



OMRON

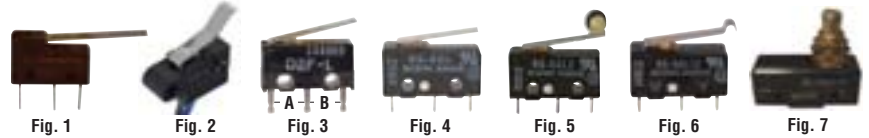


## Super and Subminiature Basic Switches

Miniature Basic Switches on pg 59

- Economical, subminiature basic switch offers long service life
- Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35"; B = 0.29"
- Dimensions: 0.78"L x 0.25"W x 0.40"H

\*Web Code: MBE



Part No.	Manufacturer	Mfr. Part No.	Fig.	Contact Form	Contact Rating	Actuator Type	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	10	100
2204015	ValuePro	BSM2-0508-13	1	SPST	5A @ 250VAC, 5A @ 30VDC	Straight lever (1.31")	1M/30k	.110" quick connect	\$1.19	\$1.09	\$ .99
2231056	Omron	D2FW-G073M	2	SPST-NO	1mA @ 5VDC	Leaf lever	300k/100k	Lead wires	6.95	5.95	4.95
188867	Omron	D2F-L	3	SPDT-NC	3A @ 125VAC, 2A @ 30VDC	Hinge lever (0.5"L)	1M/30k	Solder terminal	1.69	1.55	1.39
1827913	ValuePro	66-4011	4	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	Hinge lever (0.6"L)	30M/200k	Solder terminal	1.19	1.09	.99
187709	Omron	SS-5GL	4	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	Hinge lever (0.6"L)	30M/200k	Solder terminal	1.39	1.29	1.19
2187905	ValuePro	SM5-05N-45S-C51	5	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	Hinge roller (0.6"L)	30M/200k	Solder terminal	1.19	1.09	.99
187733	Omron	SS-5GL2	5	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	Hinge roller (0.6"L)	30M/200k	Solder terminal	2.19	1.95	1.49
159599	Highly Electric	SS0505A	5	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	Hinge roller (0.7"L)	30M/200k	Solder terminal	1.95	1.75	1.49
187717	Omron	SS-5GL13	6	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	Simulated roller lever	30M/200k	Solder terminal	2.19	1.95	1.49
2231064	Microswitch	BZ-2RQ1-A2	7	SPDT-NC-NO	15A @ 125VAC, 15A @ 250VAC	Overtravel plunger	20M	Screw	10.95	9.95	8.95



## Slide Switches

NEW MARKED IN PINK



\*Web Code: LAP

- 6/6 nylon plastic housing
- Phenolic insulated
- Nylon actual
- Top actuation



Part No.	Manufacturer	Product No.	Fig.	Pins	Contact Form	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	Lead Spacing		Housing Material	Lead Length	Actuator Height	Pricing		
								A"	B"				1	10	100
2181124	C&K Switches	S102031MS02QE**	1	3	SPDT on-off	6 @ 125/250	1.38 x .53 x .28	—	.25	Plastic	.30"	.34"	\$1.95	\$1.75	\$1.49
588220	C&K Switches	OS102011MA1QN1	2	3	SPDT on-on	0.2 @ 30VDC	.34 x .17 x .15	—	.08	Metal	.11"	.16"	.49	.45	.39
621325	GC Electronics	35-202-BU	3	3	SPDT on-on	0.3 @ 30	.44 x .22 x .18	.14	—	Metal	.14"	.16"	1.95	1.75	1.49
2133704	C&K Switches	SS12D02	4	3	SPDT on-on	0.3 @ 50VDC	.35 x .18 x .18	—	.08	Metal	.12"	.15"	.75	.59	.49
2258831	ValuePro	SS-12E17	5	3	SPDT on-on	0.3 @ 125	.45 x .16 x .47	—	.10	Plastic	.24"	.08"	.69	.55	.45
2192384	ValuePro	3450XB-4	5	3	SPDT on-on	0.3 @ 125	.45 x .22 x .23	—	.12	Plastic	.21"	.15"	.55	.45	.39
2184384	ValuePro	SS60012F-0102-4V-NB	3	3	SPDT on-on	0.3 @ 125	.75 x .21 x .35	—	.15	Metal	.14"	.34"	.75	.65	.49
109171	ValuePro	G4050X-R	5	3	SPDT on-on	0.5 @ 50VDC	.45 x .22 x .23	—	.15	Plastic	.17"	.15"	.49	.45	.39
2268383	ValuePro	R13-604C-G	6	3	SPDT on-on	6 @ 120 & 3 @ 250	.50 x .45 x .37	.20	.18	Plastic	.20"	.20"	3.95	3.59	3.29
2268175	ValuePro	R13-608C1-02-BB5	7	3	SPDT on-on	16 @ 125 & 10 @ 250	1.2 x .53 x .46	—	.26	Nylon	.24"	.36"	2.95	2.59	2.29
2268239	ValuePro	R13-608C1-05-BB5	7	3	SPDT on-on	16 @ 125 & 10 @ 250	1.2 x .53 x .46	.28	—	Nylon	.24"	.36"	2.95	2.59	2.29
2209191	CW Industries	SS-5-125V	3	4	SPDT on-off-on	0.5 @ 125VDC	.79 x .40 x .30	—	.17	Metal	.21"	.45"	.35	.29	.25
2268231	ValuePro	R13-608D1-02-BB5	7	3	SPDT on-off-on	16 @ 125 & 10 @ 250	1.2 x .53 x .46	—	.27	Nylon	.24"	.36"	2.95	2.59	2.29
2182311	Alco	SE1DGRA	8	5	SPDT on-none-on	0.02 @ 20VDC	.37 x .31 x .20	.20	.10	Plastic	.16"	.10"	2.95	2.59	2.29
2180818	TE Connectivity	TSS11DG1RA	8	5	SPDT on-none-on	0.02 @ 20VDC	.40 x .52 x .23	.10	.14	Plastic	.14"	.11"	2.95	2.59	2.29
2266879	Mountain Switch	103-5003-EV	8	3	SPDT on-none-on	3 @ 120 & 1 @ 250	.55 x .31 x .34	.10	.10	Nylon	.16"	.09"	1.95	1.75	1.49
2266895	Mountain Switch	103-5006-EVX	6	3	SPDT on-none-on	5 @ 120 & 2 @ 250	.50 x .26 x .29	—	.185	Metal	.16"	.20"	1.75	1.49	1.25
2266943	Mountain Switch	103-5016-EV	9	3	SPDT on-none-on	5 @ 120 & 2 @ 250	.50 x .26 x .27	—	.185	Metal	.25"	.20"	1.75	1.49	1.25
2266935	Mountain Switch	103-5015-EVX	9	3	SPDT on-none-on	5 @ 120 & 2 @ 250	.50 x .26 x .26	—	.185	Metal	.16"	.20"	1.95	1.75	1.49
2266903	Mountain Switch	103-5008-EV	6	3	SPDT on-none-on	5 @ 120 & 2 @ 250	.50 x .26 x .28	—	.18	Metal	.16"	.20"	1.75	1.49	1.25
2266911	Mountain Switch	103-5009-EV	10	3	SPDT on-none-on	5 @ 120 & 2 @ 250	.26 x .70 x .29	.18	.15	Metal	.42"	.27"	1.95	1.75	1.49
2266919	Mountain Switch	103-5009-EVX**	10	3	SPDT on-none-on	5 @ 120 & 2 @ 250	.26 x .70 x .30	.18	.15	Metal	.42"	.27"	1.95	1.75	1.49
2181061	NKK Switches	SS-14SDP2	5	4	SP3T on-on-on	0.1 @ 30VDC	.62 x .16 x .18	—	.10	Plastic	.13"	.08"	.25	.15	.12
2268255	Alpha	105-SV71030-13NS	2	4	SP3T on-on-on	0.1 @ 30VDC	.94 x .28 x .35	—	.12	Metal	.12"	.31"	1.49	1.25	1.09
2266967	Mountain Switch	103-5041-EV	5	4	SP3T on-on-on	0.3 @ 4VDC	.42 x .10 x .06	.10	.06	Plastic	.04"	.06"	.79	.69	.59
2180771	Alco	MHS133	4	3	SP3T on-on-on	0.3 @ 30VDC	.63 x .27 x .29	—	.08	Metal	.18"	.39"	.99	.89	.79
2268375	Alpha	SV65020F-0103-6H-01-FN	2	4	SP3T on-on-on	0.3 @ 125	.59 x .26 x .38	.10	.08	Metal	.18"	.24"	1.25	1.09	.99
2266951	Mountain Switch	103-5034-EV	5	4	SP3T on-on-on	0.1 @ 50VDC	.49 x .079 x .12	—	.079	Plastic	.06"	.08"	.79	.69	.59
2266959	Mountain Switch	103-5035-EV	5	4	SP3T (on)-on-on	0.1 @ 50VDC	.49 x .079 x .12	—	.079	Plastic	.06"	.08"	.99	.85	.69
2182442	Alco	AS2DG-PC	11	6	DPDT on-on	0.2 @ 20VDC	.37 x .20 x .37	.10	.10	Plastic	.14"	.11"	.79	.69	.59
161817	ValuePro	MS-306-R	12	6	DPDT on-on	0.3 @ 6VDC	.35 x .14 x .14	.10	.10	Plastic	.14"	.08"	.69	.59	.49
621472	GC Electronics	35-222	13	6	DPDT on-on	6 @ 125	.88 x .53 x .35	.22	.29	Plastic	.25"	.36"	.89	.79	.69
2268391	Alpha	105-SS65010F-0203-4.5H-FN	4	6	DPDT on-on-on	0.5 @ 50VDC	.63 x .26 x .29	.10	.08	Metal	.20"	.17"	1.59	1.35	1.09
2178591	Switchcraft	46206LFE*	14	6	DPDT locking	0.5 @ 125VDC	.88 x .53 x .44	.25	.28	Plastic	.17"	.26"	.59	.49	.39

\*DPDT locking, flushed, 115/230 legend, 3A @ 125VAC

\*\*Right angle

# Pushbutton Switches

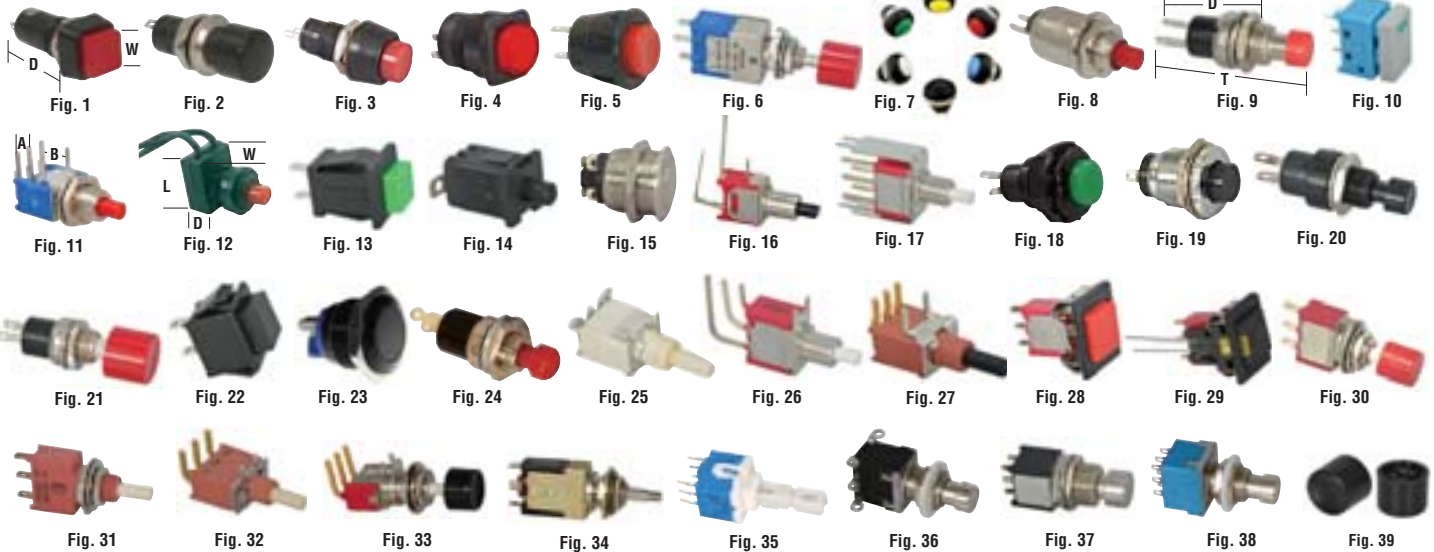


## Pushbutton Switches

**NEW**  
MARKED IN PINK

For additional Pushbutton Switches, visit [Jameco.com](http://Jameco.com) and use Web Code

★ Web Code: **UBU**



Part No.	Manufacturer	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Mounting Hole Dia.	Dimension (L" x W" x D")	Lead Spacing	Terminal Type	Button Color	Pricing		
												1	10	100
315492	ValuePro	R13-23B-B	1	2	SPST off-on	3 @ 125	.480"	1.13 (D) x 1.53 (T)	.20"	Solder lugs	Black	\$1.19	\$1.09	\$.99
315484	ValuePro	R13-23B-R	1	2	SPST off-on	3 @ 125	.480"	1.13 (D) x 1.53 (T)	.20"	Solder lugs	Red	1.19	1.09	.99
315521	ValuePro	R13-23B-Y	1	2	SPST off-on	3 @ 125	.480"	1.38 (D) x 1.53 (T)	.18"	Solder lugs	Yellow	1.19	1.09	.89
2228640	ValuePro	GP9-4A-R	2	2	SPST off-on	3 @ 125	.480"	.98 (D) x 1.56 (T)	.20"	Solder lugs	Red	1.49	1.25	1.09
2228631	ValuePro	GP9-4A-K	2	2	SPST off-on	3 @ 125	.480"	.98 (D) x 1.56 (T)	.20"	Solder lugs	Black	1.75	1.49	1.25
164494	ValuePro	R13-84B	3	2	SPST off-on	3 @ 125	.406"	.59 (D) x 1.2 (T)	.175"	Solder lugs	Red	2.49	2.25	1.95
2171145	Mountain Switch	DS-450-RED	3	2	SPST off-on	3 @ 125	.406"	.59 (D) x 1.2 (T)	.175"	Solder lugs	Red	3.95	3.59	3.29
2267871	Mountain Switch	107-3038-EVX	1	2	SPST off-on	3 @ 125 & 1 @ 250	.393"	.393 Dia. x .77 D	.181"	Solder lugs	Black	2.95	2.59	2.29
2267863	Mountain Switch	107-3036-EVX	1	2	SPST off-on	3 @ 125 & 1 @ 250	.393"	.393 Dia. x .77 D	.181"	Solder lugs	Red	2.95	2.59	2.29
2267831	Mountain Switch	107-3028-EVX	3	2	SPST off-on	3 @ 125 & 1 @ 250	.393"	.393 Dia. x .77 D	.181"	Solder lugs	Silver	2.95	2.59	2.29
2267847	Mountain Switch	107-3030-EVX	3	2	SPST off-on	3 @ 125 & 1 @ 250	.393"	.393 Dia. x .77 D	.181"	Solder lugs	Silver	2.95	2.59	2.29
2267855	Mountain Switch	107-3033-EVX	1	2	SPST off-on	3 @ 125 & 1 @ 250	.393"	.393 Dia. x .77 D	.181"	Solder lugs	Silver	2.95	2.59	2.29
2268079	ValuePro	R13-23B-05-BB	1	2	SPST off-on	3 @ 125 & 1.5 @ 250	.480"	.47 Dia. x 1.1 (T)	.181"	Solder lugs	Blue	1.95	1.75	1.49
2269687	ValuePro	R13-23B-05-BL	1	2	SPST off-on	3 @ 125 & 1.5 @ 250	.480"	.47 Dia. x 1.1 (T)	.181"	Solder lugs	Blue	1.95	1.75	1.49
2268191	ValuePro	R13-23B-05-BW	1	2	SPST off-on	3 @ 125 & 1.5 @ 250	.480"	.47 Dia. x 1.1 (T)	.181"	Solder lugs	White	1.95	1.75	1.49
2269647	ValuePro	R13-511B-05-B	4	2	SPST off-on	3 @ 125 & 1.5 @ 250	.50"L x .45"W	.50 L x .93 (T)	.25"	Solder lugs	Black	2.95	2.59	2.29
2268311	ValuePro	R13-508AL-05-BRR-L3	4	2	SPST off-on	3 @ 125 & 1.5 @ 250	.63"L x .59"W	.63 x .59 x .94	.24"	Solder lugs	Black	2.95	2.59	2.29
2268263	ValuePro	R13-523BL-05-BRRL1	5	2	SPST off-on	3 @ 125 & 1.5 @ 250	.63"L x .59"W	.63 Dia. x .75 (T)	.19"	Solder lugs	Red illum.	3.95	3.59	3.29
2269639	ValuePro	PA101A1-B/BL	6	2	SPST off-on	6 @ 125 & 3 @ 250	.240"	.51 x .32 x .87	.18"	Solder lugs	Black	1.95	1.75	1.49
2217588	Seed Studio	TEM12121B	7	2	SPST off-(on)	1 @ 125	.620"	.69 x .69 x .75	.20"	Screw	6 colors	4.95	4.49	3.95
315643	ValuePro	R13-81-R	8	2	SPST off-(on)	5 @ 125	.203"	.44 (D) x .78 (T)	.08"	PC terminal	Red	.95	.85	.75
164671	ValuePro	NS-801MO-BLACK	18	2	SPST off-(on)	1 @ 125	.480"	1.0 (D) x 1.1 (T)	.16"	Solder lugs	Black	1.95	1.75	1.49
2238186	ValuePro	GR18-29B	9	2	SPST off-(on)	1 @ 125	.250"	.65 (D) x 1.1 (T)	.148"	Solder lugs	Black	.89	.79	.75
2267983	Mountain Switch	107-6613	10	2	SPST off-(on)	1 @ 125	.61"L x .40"W	.61 x .46 x .71	.20"	PC Terminal	Gray/Gr illum.	1.49	1.25	1.09
71643	ValuePro	SWB210	11	2	SPST off-(on)	1 @ 120	.219"	.36 x .20 x .33	.20"	PC right angle	Black	2.75	2.49	2.25
2210870	Leviton	PB-1A-125-W	12	2	SPST off-(on)	1 @ 125 & .25 @ 250	.370"	.90 x .63 x .73	.80"	6" wire LDS	Black	1.49	1.25	1.09
2266823	Mountain Switch	103-1209-EV	13	2	SPST off-(on)	1 @ 125 & .5 @ 250	.49"L x .44"W	.57 x .44 x .80	.25"	Solder lugs	Green	1.49	1.25	1.09
2229626	C&K Switch	8531-S-C-Q	8	2	SPST off-(on)	1 @ 250	.250"	.23 (D) x 1.1 (T)	.21"	PC terminal	Black	3.95	3.59	3.29
2268063	ValuePro	R13-504A-05-BB	14	2	SPST off-(on)	2 @ 125 & 1 @ 250	.57"L x .57"W	.62 x .62 x .73	.65"	Solder lugs	Black	1.25	1.09	.99
2131274	Velleman	R1400A	15	2	SPST off-(on)	2 @ 48VDC	.750"	.87 (D) x 1.2 (T)	.37"	Screw	Silver	3.95	3.59	3.29
171774	Apem	AV191003C900	15	2	SPST off-(on)	2 @ 48VDC	.750"	.87 (D) x 1.2 (T)	.37"	Screw	Silver	13.95	12.49	10.95
2267807	Mountain Switch	107-3025-EVX	16	2	SPST off-(on)	3 @ 120 & 1 @ 250	.195"	.20 x .56 x .85	.20"	PC right angle	Black	2.49	2.25	1.95
2267815	Mountain Switch	107-3026-EVX	17	2	SPST off-(on)	3 @ 120 & 1 @ 250	.195"	.40 x .20 x .48	.20"	PC terminal	Black	2.49	2.25	1.95
26623	ValuePro	MS102	9	2	SPST off-(on)	3 @ 125	.250"	.65 (D) x 1.10 (T)	.14"	Solder lugs	Red	.89	.79	.75
315432	ValuePro	R13-23A-R	1	2	SPST off-(on)	3 @ 125	.480"	1.13 (D) x 1.53 (T)	.20"	Solder lugs	Red	1.49	1.25	1.09
174414	ValuePro	R13-510A	4	2	SPST off-(on)	3 @ 125	.500"	.82 (D) x 1.02 (T)	.16"	Solder lugs	Red	1.75	1.49	1.25
2231865	ValuePro	662412	9	2	SPST off-(on)	3 @ 125	.275"	.57 (D) x 1.0 (T)	.14"	Solder lugs	Black	.99	.89	.79
315599	ValuePro	R13-40A-R	2	2	SPST off-(on)	3 @ 125	.480"	.98 (D) x 1.56 (T)	.20"	Solder lugs	Red	1.49	1.25	1.09
315791	ValuePro	R13-508A-05-BB	4	2	SPST off-(on)	3 @ 125	.630"	.94 (D) x 1.16 (T)	.24"	Solder lugs	Black	1.49	1.25	1.09

§ Illuminated: red/green # Silver body ✓ Use 2202132 cap Additional panel mounting hardware: 1 2182688, see pg 78

Continued on next page

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Pushbutton Switches

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## Pushbutton Switches (Continued)

See page 61 for figures

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\*Web Code: UBU

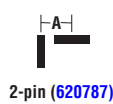
Part No.	Manufacturer	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Mounting Hole Dia.	Dimension (L" x W" x D")	Lead Spacing	Terminal Type	Button Color	Pricing		
												1	10	100
315660	ValuePro	R13-502A-05-BR	18	2	SPST off-(on)	3 @ 125	.500"	.82 (D) x 1.02 (T)	.22"	Solder lugs	Red	\$1.49	\$1.25	\$1.09
315580	ValuePro	R13-40B-B	2	2	SPST off-(on)	3 @ 125	.480"	.87 (D) x 1.4 (T)	.20"	Solder lugs	Black	1.49	1.25	1.09
164486	ValuePro	R13-84A	3	2	SPST off-(on) <sup>3</sup>	3 @ 125	.406"	.59 (D) x 1.2 (T)	.175"	Solder lugs	Red	1.75	1.59	1.39
315678	ValuePro	R13-502A-05-BG	18	2	SPST off-(on)	3 @ 125	.500"	.82 (D) x 1.02 (T)	.20"	Solder lugs	Green	1.95	1.75	1.49
315651	ValuePro	R13-502A-05-BB	18	2	SPST off-(on)	3 @ 125	.500"	.82 (D) x 1.02 (T)	.23"	Solder lugs	Black	1.95	1.75	1.49
106112	Mountain Switch	DS-412-RED	5	2	SPST off-(on)	3 @ 125	.734"	.66 (D) x .63 (T)	.275"	Solder lugs	Red	2.25	1.95	1.75
315820	ValuePro	R13-508AL-05-BRR	4	4	SPST off-(on)	3 @ 125	.630"	.93 (D) x 1.14 (T)	.21"	Solder w/ LED	Red illum.	2.49	2.25	1.95
164582	Mountain Switch	112-R13-502MA-BLB	19	2	SPST off-(on) <sup>4</sup>	3 @ 125	.490"	.90 (D) x 1.0 (T)	.19"	Solder lugs	Black	2.95	2.75	2.49
2267879	Mountain Switch	107-3039-EVX	1	2	SPST off-(on)	3 @ 125 & 1 @ 250	.393"	.393 Dia. x .77	.181"	Solder lugs	Silver	2.49	2.25	1.95
2267887	Mountain Switch	107-3040-EVX	1	2	SPST off-(on)	3 @ 125 & 1 @ 250	.393"	.393 Dia. x .77	.181"	Solder lugs	Silver <sup>#</sup>	2.49	2.25	1.95
2267895	Mountain Switch	107-3041-EVX	1	2	SPST off-(on)	3 @ 125 & 1 @ 250	.393"	.393 Dia. x .77	.181"	Solder lugs	Silver	2.49	2.25	1.95
2267903	Mountain Switch	107-3042-EVX	1	2	SPST off-(on)	3 @ 125 & 1 @ 250	.393"	.393 Dia. x .77	.181"	Solder lugs	Silver <sup>#</sup>	2.49	2.25	1.95
2267823	Mountain Switch	107-3027-EVX	3	2	SPST off-(on)	3 @ 125 & 1 @ 250	.393"	.393 Dia. x .77	.181"	Solder lugs	Silver	3.49	3.15	2.79
2267839	Mountain Switch	107-3029-EVX	3	2	SPST off-(on)	3 @ 125 & 1 @ 250	.393"	.393 Dia. x .77	.181"	Solder lugs	Silver <sup>#</sup>	3.49	3.15	2.79
2268327	ValuePro	R13-509A-05-BB	20	2	SPST off-(on)	3 @ 125 & 1.5 @ 250	.280"	.28 Dia. x .60	.19"	Solder lugs	Black	.89	.79	.69
2268087	ValuePro	R13-509A-05-BB	20	2	SPST off-(on)	3 @ 125 & 1.5 @ 250	.280"	.417 Dia. x 1.14L	.181"	Solder lugs	Red	.89	.79	.69
2269679	Mountain Switch	R13-23A-05-B/BL	1	2	SPST off-(on)	3 @ 125 & 1.5 @ 250	.470"	.47 Dia. x 1.13 (T)	.21"	Solder lugs	Blue	1.49	1.25	1.09
2269671	Mountain Switch	R13-23A-05-BY	1	2	SPST off-(on)	3 @ 125 & 1.5 @ 250	.470"	.47 Dia. x 1.13 (T)	.21"	Solder lugs	Yellow	1.49	1.25	1.09
2268295	Mountain Switch	103-1022-EVX	21	2	SPST off-(on)	3 @ 125 & 1.5 @ 250	.280"	.28 Dia. x .58	.19"	Solder lugs	Red	1.25	1.09	.99
2268135	ValuePro	R13-23A-05-BL	1	2	SPST off-(on)	3 @ 125 & 1.5 @ 250	.480"	.47 Dia. x .90 (T)	.181"	Solder lugs	Blue	1.95	1.75	1.49
2269631	ValuePro	R13-508A-R	4	2	SPST off-(on)	3 @ 125 & 1.5 @ 250	.63L x .59W	.63 Dia. x .94 (T)	.23"	Solder lugs	Red illum.	2.95	2.59	2.29
2231822	Apem Inc.	1413NC2	22	2	SPST off-(on)	3 @ 12VDC	.57L x .63W	.71 x .71 x .51	.29"	Solder lugs	Black	1.95	1.75	1.49
2217553	Seed Studio	TEM12123B	23	2	SPST off-(on)	3 @ 250	.620"	.70 x .70 x .90	.20"	Solder lugs	Black	4.49	3.95	3.59
2217570	Seed Studio	TEM12127B	23	2	SPST off-(on)	3 @ 250	.620"	.70 x .70 x .90	.20"	Solder lugs	Blue	4.49	3.95	3.59
2217561	Seed Studio	TEM12125B	23	2	SPST off-(on)	3 @ 250	.620"	.70 x .70 x .90	.20"	Solder lugs	Red	4.49	3.95	3.59
22218	Judco	J1882	12	2*	SPST off-(on)	4 @ 14VDC	.375"	.65 x .52 x .40	.25"	5" Pigtail	Red	1.59	1.35	1.19
2267679	Mountain Switch	104-0015-EVX	24	2	SPST on-(off)	5 @ 125	.290"	.374 (D) x 1.12 (T)	.181"	Solder lugs	Red illum.	.89	.79	.69
2228906	Arndt	MGPB-SPST-3A(iridite)	24	2	SPST on-(off) <sup>1</sup>	3 @ 125	.299"	.36 (D) x 1.13 (T)	.17"	Solder lugs	Black	.79	.69	.59
26649	ValuePro	R18-29B (chrome)	9	2	SPST on-(off) <sup>1</sup>	3 @ 125	.299"	.36 (D) x 1.13 (T)	.181"	Solder lugs	Black	.89	.79	.69
2266815	Mountain Switch	103-1024-EVX	21	2	SPST on-(off)	3 @ 125	.283"	.395 (D) x 1.34 (T)	.16"	Solder lugs	Red	1.09	.99	.89
2266839	Mountain Switch	103-1219-EVX	20	2	SPST on-(off)	3 @ 125 & 1.5 @ 250	.280"	.42 (D) x .69 (T)	.16"	Solder lugs	Black	.99	.89	.79
2266831	Mountain Switch	103-1218-EVX	20	2	SPST on-(off)	3 @ 125 & 1.5 @ 250	.280"	.42 (D) x .69 (T)	.16"	Solder lugs	Red	.99	.89	.79
2181386	ValuePro	WJ-DS03	25	3	SPDT on-(off)	16 @ 125 & 10 @ 250	.335"	1.6 x 1.0 x .54	.20"	.250" quick conn.	White	1.49	1.25	1.09
22200	Judco	J1881	12	2*	SPST on-off, Alt <sup>†</sup>	2 @ 14VDC	.375"	.65 x .52 x .40	.25"	5" Pigtail	White	2.25	1.95	1.75
2269655	ValuePro	PA102A1-BR	6	3	SPDT on-on	6 @ 125 & 3 @ 250	.240"	.51 x .32 x .87	.18"	Solder lugs	Red	1.95	1.75	1.49
2269663	ValuePro	112-PA106A1-R/BL	6	3	SPDT (on)-on	6 @ 125 & 3 @ 250	.240"	.24 Dia. x .87 (T)	.18"	Solder lugs	Red	1.95	1.75	1.49
2267783	Mountain Switch	107-3016-EVX	27	3	SPDT on-(on)	4 @ 20VAC/VDC	.185"	.79 x .33 x .22	.12"	PC right angle	Black	2.95	2.59	2.29
2267791	Mountain Switch	107-3018-EVX	25	3	SPDT on-(on)	4 @ 20VAC/VDC	.185"	.32 x .35 x .24	.12"	SMD/SMT	White	2.95	2.59	2.29
2227524	NKK	DB2511V	26	3	SPDT on-(on)	4 @ 28VDC	.240"	.60 x .58 x .28	.10"	PC right angle	Silver	.99	.85	.75
2182080	C&K Switch	8121J81ZGE99	28	3	SPDT on-(on)	1 @ 120	.250"	.50 x .27 x .41	.185"	Solder lugs	Gray	5.95	5.39	.55
2182098	C&K Switch	8125J85ZBE225	29	5	SPDT on-(on)	1 @ 120	.50L x .60W	.50 x .37 x .37	.145"	Solder lugs	Black	7.95	6.95	6.25
28063	ValuePro	PB126	30	3	SPDT on-(on) <sup>2</sup>	3 @ 120	.250"	.52 x .28 x .38	.185"	Solder lugs	Red	3.59	3.25	2.95
121305	ValuePro	GPB006-WH	30	3	SPDT on-(on) <sup>2</sup>	3 @ 120	.250"	.52 x .27 x .38	.185"	Solder lugs	White	3.59	3.25	2.95
2267703	Mountain Switch	107-3001-EVX	31	3	SPDT on-(on)	3 @ 120/28VDC	.250"	.50 x .26 x .41	.185"	Solder lugs	White	3.95	3.49	2.95
2267719	Mountain Switch	107-3003-EVX	17	3	SPDT on-(on)	3 @ 120 & 1 @ 250	.185"	.62 x .32 x .66	.19"	PC terminal	White	3.95	3.49	2.95
2267735	Mountain Switch	107-3005-EVX	26	3	SPDT on-(on)	3 @ 120 & 1 @ 250	.250"	.27 x .52 x .50	.185"	PC right angle	White	3.95	3.49	2.95
2267711	Mountain Switch	107-3002-EVX	32	3	SPDT on-(on)	3 @ 120 & 1 @ 250	.250"	.50 x .50 x .26	.20"	PC terminal	White	3.95	3.49	2.95
2267727	Mountain Switch	107-3004-EVX	28	3	SPDT on-(on)	3 @ 120 & 1 @ 250	.250"	.50 x .27 x .63	.185"	Solder lugs	Red	2.95	2.59	2.29
2267743	Mountain Switch	107-3007-EVX	28	3	SPDT on-(on)	3 @ 120 & 1 @ 250	.62L x .50W	.98 x .48 x .72	.185"	Solder lugs	Red	3.95	3.49	2.95
2267751	Mountain Switch	107-3008-EVX	28	3	SPDT on-(on)	3 @ 120 & 1 @ 250	.62L x .50W	.98 x .48 x .72	.185"	Solder lugs	Red	3.95	3.49	2.95
2182101	C&K Switch	8168SHABE2	33	3	SPDT on-(on)	6 @ 120	.300"	.50 x .27 x .45	.185"	PC right angle	Black	6.95	6.25	5.59
2182240	Alcoswitch	MSP105F	34	3	SPDT (on)-off-(on)	5 @ 115	.250"	.50 x .26 x .66	.14"	Solder lugs	Silver	1.95	1.75	1.49
2215785	C&K Switch	PVA1-OA-H1-1.2N	35	6	DPST on-(on)	1 @ 32VDC	.21L x .22W	.36 x .34 x .30	.10"	PC pin	Red	.99	.89	.79
2181407	ValuePro	01-690C	36	6	DPDT off-on <sup>†</sup>	4 @ 125	.472"	1.7 x .71 x .98	.35"	Solder lugs	Silver	4.49	3.95	3.59
2267967	Alpha	SF12020F-0202-20R-L-051	37	6	DPDT on-off	6 @ 125 & 3 @ 250	.470"	.53 x .47 x .65	.18"	Solder lugs	Silver	5.95	5.39	4.79
594718	C&K Switch	PVA2EEH21.7N	35	6	DPDT on-(on)	1 @ 32VDC	.21L x .22W	.36 x .36 x .43	.10"	PC pin	White	.99	.89	.79
2267759	Mountain Switch	107-3009-EVX	31	6	DPDT on-(on)	3 @ 120 & 1 @ 250	.250"	.50 x .45 x .59	.185"	Solder lugs	White	4.95	4.49	3.95
2267767	Mountain Switch	107-3011-EVX	17	6	DPDT on-(on)	3 @ 120 & 1 @ 250	.250"	.62 x .32 x .82	.185"	PC terminal	White	4.95	4.49	3.95
2267775	Mountain Switch	107-3012-EVX	28	6	DPDT on-(on)	3 @ 120 & 1 @ 250	.62L x .50W	.98 x .48 x .72	.185"	Solder lugs	Red	2.95	2.59	2.29
2181415	ValuePro	01-690DB-RH	38	9	3PDT off-on <sup>†</sup>	4 @ 125	.472"	1.7 x .68 x .77	.185"	Solder lugs	Silver	4.49	3.95	3.59
2203055	LKG	SW-CAP	39		Red pushbutton switch cap, round .30"Dia. x .30"H x .12"ID, snap fit							.35	.29	.25
2202132	Alcoswitch	C22004	39		Black pushbutton switch cap (for P/N 71643), round, .402"Dia x .315"H x .099"ID, snap fit							.25	.12	.09
578591	C&K Switch	894102000	39		Black pushbutton switch cap, round, .395"Dia. x .325"H							.25	.19	.15

\*Lead wires    #Silver body    †Alt = alternate action    Additional panel mounting hardware: 1 2182688; 2 2182477; 3 2183242; 4 2182733, see pg 78

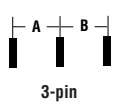


## Standard Toggle Switches

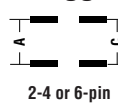
- Mounting hole diameter: 1/2"
- Shaft thread: M12 x 0.75
- Waterproof boot seals (below)



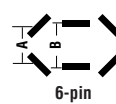
2-pin (620787)



3-pin



2-4 or 6-pin



6-pin



Fig. 1



Fig. 2



\*Web Code: NAJ



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10

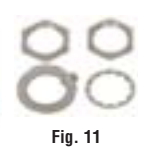


Fig. 11

Part No.	Manufacturer	Product No.	Fig.	Pins	Contact Form	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	Lead Spacing			Terminal Type	Lever Type	Pricing		
								A"	B"	C"			1	10	100
76241	ValuePro	SWM128	1	2	SPST on-off	4 @ 125 & 2 @ 250	1.00 x .56 x .52	.23	—	—	Solder lugs	Round	\$1.95	\$1.75	\$1.49
76232	ValuePro	SWM125	2	2	SPST on-off	6 @ 125 & 3 @ 250	1.00 x .53 x .51	.23	—	—	6" lead wire	Round	1.95	1.75	1.55
2269583	ValuePro	R13-25A2-01	8	2	SPST on-off	10 @ 125 & 6 @ 250	1.10 x .79 x .87	—	.37	—	.250" quick connect	Round	2.95	2.59	2.29
317825	ValuePro	R13-25A2-01	3	2	SPST on-off	10 @ 125 & 6 @ 250	1.14 x .59 x .62	.38	—	—	.250" quick connect	Round	2.95	2.59	2.29
2266807	Mountain Switch	103-0010-EVX	10	2	SPST on-off	15 @ 125 & 10 @ 250	1.20 x .62 x 1.2	—	1.0	—	.250" quick connect	Round	4.95	4.49	3.95
318027	ValuePro	R13-28A-06	3	2	SPST on-off	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.46	—	M3 screw	Round	2.75	2.49	2.25
318002	ValuePro	R13-28A-01	3	2	SPST on-off	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.57	—	.250" quick connect	Round	3.25	2.95	2.59
2266759	Mountain Switch	103-0001-EVX	8	3	SPST on-off	20 @ 12VDC (White)	1.10 x .63 x 2.5	—	1.0	—	.250" quick connect	Round	4.95	4.49	3.95
2266767	Mountain Switch	103-0002-EVX	8	3	SPST on-off	20 @ 12VDC (Blue)	1.10 x .63 x 2.5	—	1.0	—	.250" quick connect	Round	4.95	4.49	3.95
2266775	Mountain Switch	103-0003-EVX	8	3	SPST on-off	20 @ 12VDC (Green)	1.10 x .63 x 2.5	—	1.0	—	.250" quick connect	Round	4.95	4.49	3.95
621499	GC Electronics	35-3005*	4	2	SPST on-off	20 @ 125 & 10 @ 250	.92 x .64 x .40	.47	—	.96	.250" quick connect	Round	4.95	4.49	3.95
158060	ValuePro	JKN32	1	4	SPDT on-off	4 @ 125 & 2 @ 250	1.00 x .56 x .52	.23	.65	.23	Solder lugs	Round	1.25	1.09	.99
2266799	Mountain Switch	103-0007-EVX	6	5	SPDT on-off	30 @ 12VDC (Red/Green)	1.35 x .75 x 1.30	.45	.44	—	.250" quick connect	Flat	4.95	4.49	3.95
2266791	Mountain Switch	103-0006-EVX	6	5	SPDT on-off	30 @ 12VDC (Red/Green)	1.35 x .75 x 1.30	.45	.44	—	.250" quick connect	Flat	4.95	4.49	3.95
2266847	Mountain Switch	103-13293-EVX	7	3	SPDT on-off-on	15 @ 125 & 10 @ 250	1.20 x .62 x 1.0	—	.57	—	M3 Screw	Round	4.95	4.49	3.95
318123	ValuePro	R13-28D-01	3	3	SPDT on-off-on	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.65	.45	.250" quick connect	Round	2.75	2.49	2.25
2266783	Mountain Switch	103-0005-EVX	6	5	SPDT on-off-on	30 @ 12VDC (Red/Clear/Gm)	1.35 x .75 x 1.30	.45	.44	—	.250" quick connect	Flat	4.95	4.49	3.95
2229749	Arndt	DPDT-C-OFE	3	6	DPDT on-off	10 @ 125 & 20 @ 125	1.31 x .75 x .75	.45	.44	.45	M3 screw	Round	2.75	2.49	2.25
2269591	Arndt	R13-25B1-05	9	6	DPDT on-on	10 @ 125 & 6 @ 250	1.10 x .79 x .87	.32	.37	—	Solder lugs	Flat	3.25	2.95	2.59
317850	ValuePro	R13-25B1-05P	5	6	DPDT on-on	10 @ 125 & 6 @ 250	1.14 x .79 x .62	.40	.38	.40	Solder lugs	Flat	3.49	3.19	2.79
158078	ValuePro	JKN3CC	3	6	DPDT on-on	15 @ 125 & 10 @ 250	1.19 x .76 x .73	.44	.59	1.0	Screw lugs	Round	1.75	1.49	1.25
318043	ValuePro	R13-28B-01	3	6	DPDT on-on	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	2.5	.250" quick connect	Round	4.95	4.49	3.95
567761	ValuePro	T-1224	3	6	DPDT on-off-on	10 @ 125 & 5 @ 250	1.18 x .77 x .75	.40	.60	2.64	M3 screw	Round	3.95	3.59	3.29
2269575	ValuePro	R13-25E1-05	9	6	DPDT on-off-on	10 @ 125 & 6 @ 250	1.10 x .79 x .87	.32	.37	—	Solder lugs	Flat	3.25	2.95	2.59
317972	ValuePro	R13-25E1-05P	5	6	DPDT on-off-on	10 @ 125 & 6 @ 250	1.14 x .59 x .62	.38	.38	.38	Solder lugs	Flat	3.49	3.19	2.79
2265959	ValuePro	L603T3B3H2	3	6	DPDT on-off-on	20 @ 125 & 10 @ 250	1.20 x .72 x .76	.58	.66	.58	M3 screw	Round	5.95	5.49	4.95
2182733	ValuePro	M12HDWR	11		Additional M12 hardware (2 hex nuts, 1 internal lock washer, 1 key lock washer)								.99	.89	.79

\* Shaft thread: 15/32-32 use 2182506 (pg 78) for additional panel mounting hardware † Alternate action ‡ Illuminated ✓ Sealed



## Protective and Waterproof Boot Seal Switch Covers

- Full protection from water, oil, sand, dust, dirt, humidity, moisture and other contaminants
- Applications: aerospace, automotive, computer and electronic equipment
- IP68 rated

\*Web Code: SBS



2150192



2192683

Part No.	Manufacturer	Product No.	Description	Dimensions	1	10	100
2150192	Zago	TH 606-GY	Toggle switch boot seal, gray, 15/32-32, fits standard toggle switches (above)	0.625" OD x 0.209" ID x 0.890"H	\$1.95	\$1.75	\$1.49
2192683	Zago	TH609-BLK	Toggle switch boot seal, black, 15/32-32, fits standard toggle switches (above)	0.324" OD x 0.226" ID x 0.937"H	1.95	1.75	1.49



## Miniature Toggle Switches



\*Web Code: PAJ

- Mounting hole dia.: 1/4"
- Thread: 1/4-40 UNS-2B
- See page 63 for waterproof boot seals

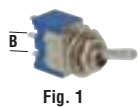


Fig. 1

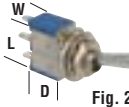


Fig. 2

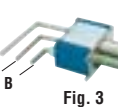


Fig. 3

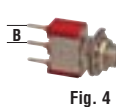


Fig. 4

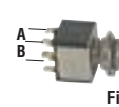


Fig. 5

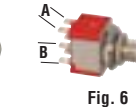


Fig. 6



Fig. 7

Includes: Panel mounting hardware

(PC straight or right angle)

(PC or solder lug)

Part No.	Mfr.	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	Lead Spacing		Terminal Type	Lever Type	Pricing		
								A"	B"			1	10	100
2135478	JVP	T100T1B4A2	3	2	SPST on-off	5 @ 120 & 2 @ 250	.50 x .28 x .35	—	0.185	PC straight	Round	\$1.49	\$1.25	\$1.09
317228	JVP	1MS9T1B1M1QE <sup>1</sup>	1	2	SPST on-off	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	Solder lugs	Round	1.75	1.59	1.45
317287	JVP	1MS9T6B11M1QE <sup>1</sup>	2	2	SPST on-off	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	Solder lugs	Flat	1.95	1.75	1.49
76523	JVP	JMT113 <sup>1</sup>	1	2	SPST on-off	5 @ 125 & 2 @ 250	.52 x .32 x .38	—	0.185	Solder lugs	Round	1.49	1.25	1.09
2230328	JVP	66-1201	1	2	SPST on-off	6 @ 125 & 3 @ 250	.52 x .31 x .37	—	0.190	Solder lugs	Round	1.25	1.09	.99
2235735	CAR	2M1-SP1-T7-B0-M2RE <sup>2</sup>	4	3	SPST on-on	0.4VA @ 20VDC/AC	.50 x .27 x .39	—	0.185	PC straight	Round	1.49	1.25	1.09
75854	JVP	T101T1B1A1QN <sup>1</sup>	1	3	SPDT on-on	5 @ 120 & 2 @ 250	.52 x .32 x .38	—	0.185	Solder lugs	Round	1.19	1.09	.99

1,2: See page 64 for the note

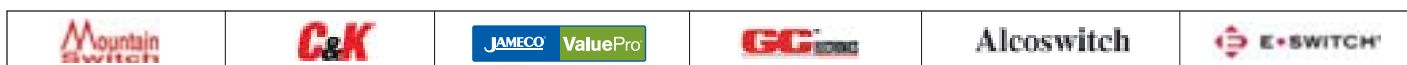
Continued on next page

\* CAR = Carling Technologies | JVP = ValuePro

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

3 LEVELS OF SAVINGS		
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## Miniature Toggle Switches (Continued)

See page 63 for figures

\*Web Code: PAJ

Part No.	Mfr.	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	Lead Spacing		Terminal Type	Lever Type	Pricing		
								A"	B"			1	10	100
2135857	JVP	GTS103 <sup>1</sup>	1	3	SPDT on-on	5 @ 120 & 2 @ 250	.50 x .28 x .35	—	0.185	Solder lugs	Round	\$1.49	\$1.25	\$1.09
317236	JVP	1MS1T1B1M1QE <sup>1</sup>	1	3	SPDT on-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	Solder lugs	Round	1.79	1.59	1.45
26332	JVP	MPC123R <sup>1</sup>	4	3	SPDT on-on	5 @ 120 & 2 @ 250	.52 x .32 x .37	—	0.185	PC straight	Round	1.75	1.49	1.25
22833	JVP	MS102F1-R <sup>1</sup>	2	3	SPDT on-on	5 @ 125 & 2 @ 250	.52 x .28 x .36	—	0.185	Solder lugs	Flat	1.95	1.75	1.49
2258486	NKK	M2012SS1W01	1	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .37	—	0.185	Solder lugs	Round	2.95	2.59	2.29
71597	JVP	MTS-102-C4	3	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.133	PC right angle	Round	1.75	1.49	1.25
2258777	NKK	M2015SS1W01	1	3	SPDT on-(on)	6 @ 125 & 3 @ 250	.52 x .32 x .37	—	0.185	Solder lugs	Round	2.49	2.25	1.95
21910	JVP	JMT121 <sup>1</sup>	1	3	SPDT on-off-on	5 @ 120 & 2 @ 250	.52 x .32 x .38	—	0.185	Solder lugs	Round	1.25	1.09	.99
317308	JVP	1MS3T6B11M1QE <sup>1</sup>	2	3	SPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	Solder lugs	Flat	1.79	1.59	1.45
317244	JVP	1MS3T1B1M1QE <sup>1</sup>	1	3	SPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	Solder lugs	Round	1.79	1.59	1.45
26315	JVP	MPC121 <sup>1</sup>	4	3	SPDT on-off-on	5 @ 125 & 2 @ 250	.52 x .32 x .37	—	0.185	PC straight	Round	1.49	1.25	1.09
2181765	JVP	TS-5-120VAC	4	3	SPDT on-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	Solder lugs	Round	1.09	.99	.89
317252	JVP	1MS4T1B1M1QE <sup>1</sup>	1	3	SPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	Solder lugs	Round	1.79	1.59	1.45
317316	JVP	1MS4T6B11M1QE <sup>1</sup>	2	3	SPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	Solder lugs	Flat	1.95	1.75	1.49
2180893	ALC	A105SYZB	4	3	SPDT (on)-off-(on)	5 @ 125 & 2 @ 250	.50 x .27 x .36	—	0.185	Solder lugs	Round	3.95	3.59	3.29
75889	JVP	SWM129 <sup>1</sup>	1	3	SPDT (on)-off-(on)	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	Solder lugs	Round	1.95	1.75	1.49
2181642	C&K	7101MD9ABI	3	3	SPDT on-none-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	PC right angle	Round	2.95	2.59	2.29
21979	JVP	T201T1B1A1QN <sup>1</sup>	6	6	DPDT on-on	5 @ 120 & 2 @ 250	.52 x .52 x .38	0.20	0.185	Solder lugs	Round	1.75	1.49	1.25
317472	JVP	1MD1T6B11M1QE <sup>1</sup>	5	6	DPDT on-on	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	Solder lugs	Flat	1.95	1.75	1.49
26367	JVP	GTS112-P <sup>1</sup>	6	6	DPDT on-on	5 @ 120 & 3 @ 250	.52 x .50 x .41	0.20	0.157	PC straight	Round	1.75	1.49	1.25
22859	JVP	GTS172BLK <sup>1</sup>	5	6	DPDT on-on	5 @ 120 & 3 @ 250	.52 x .52 x .38	0.20	0.185	Solder lugs	Flat	1.95	1.75	1.49
26358	JVP	MPC221 <sup>1</sup>	6	6	DPDT on-off-on	5 @ 120 & 3 @ 250	.52 x .52 x .38	0.20	0.185	PC straight	Round	1.75	1.49	1.25
21952	JVP	GTS114 <sup>1</sup>	6	6	DPDT on-off-on	5 @ 120 & 3 @ 250	.52 x .52 x .38	0.20	0.185	Solder lugs	Round	1.75	1.49	1.25
22841	JVP	GTS164BLK <sup>1</sup>	5	6	DPDT on-off-on	5 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	Solder lugs	Flat	1.95	1.75	1.49
317498	JVP	1MD4T6B11M1QE <sup>1</sup>	5	6	DPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	Solder lugs	Flat	2.95	2.59	2.29
75951	JVP	SWM130 <sup>1</sup>	6	6	DPDT (on)-off-(on)	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	Solder lugs	Round	1.75	1.49	1.25
620576	GCE	35-009 <sup>1</sup>	6	6	DPDT on-on-on	5 @ 120 & 2 @ 250	.50 x .45 x .40	0.23	0.150	Solder lugs	Round	3.95	3.59	3.29
2181212	C&K	E201MD1CBE	6	6	DPDT on-none-on	5 @ 125 & 3 @ 250	.50 x .45 x .35	—	0.185	PC straight	Round	1.95	1.75	1.49
2182477	C&K	1/4-40HDWR	7	—	Additional 1/4-40 UNS threaded panel mounting hardware (4 pcs.) for above switches indicated with <sup>1</sup>							.89	.79	.69
2182506	C&K	15/32-32HDWR	7	—	Additional 15/32-32 UNS threaded panel mounting hardware (4 pcs.) for P/N 2235735 indicated with <sup>2</sup>							.99	.89	.79

Electromech

## Subminiature Toggle Switches

NEW  
MARKED IN PINK

Additional Toggle Switches, visit [Jameco.com](http://Jameco.com) and use Web Code

\*Web Code: NAN

- Mounting hole diameter: 7/32 (.21")
- Round toggle
- Thread: 10-48 UNS
- Metal construction
- Pre-tinned leads

Includes: Panel mounting hardware



Part No.	Mfr.	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	Lead Spacing		Terminal Type	Pricing		
								A"	B"		1	10	100
2269519	MSW	108-0047-EVX	1	3	SPST off-on	3 @ 125 & 1 @ 250	.32 x .24 x .47	—	.10	PC terminal	\$2.49	\$2.25	\$1.95
2267943	MSW	108-0038-EVX	3	2	SPST off-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	.18	Solder lugs	3.49	3.29	2.96
2267935	MSW	108-0040-EVX	3	2	SPST off-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	.18	Solder lugs	3.49	3.29	2.96
2267959	MSW	1055-TA2120-EVX	1	2	SPST off-on	6 @ 125 & 3 @ 250	.51 x .29 x .62	—	.19	Solder lugs	2.49	2.25	1.95
2269623	MSW	108-0050-EVX	1	2	SPST on-off	3 @ 125 & 1 @ 250	.32 x .24 x .47	—	.10	PC terminal	2.49	2.25	1.95
72161	JVP	SW1501 <sup>§</sup>	1	2	SPST on-off	5 @ 120 & 1.5 @ 250	.33 x .21 x .33	.10	—	Solder lugs	1.49	1.25	1.09
106067	JVP	SWP124	2	3	SPDT on-on	.4VA max.	.25 x .33 x .40	.20	.10	PC right angle	1.95	1.75	1.49
2202757	ESW	A123S1D9AB	2	3	SPDT on-on	.5VA @ 28VDC/AC	.50 x .37 x .26	.17	—	PC right angle	3.95	3.59	3.29
2269551	MSW	108-0048-EVX	1	3	SPDT on-on	3 @ 120 & 1 @ 250	.32 x .20 x .47	—	.10	PC terminal	2.95	2.59	2.29
75969	JVP	SWM136 <sup>§</sup>	1	3	SPDT on-on	3 @ 125 & 1.5 @ 250	.33 x .21 x .33	.10	—	Solder lugs	1.49	1.25	1.09
2268287	MSW	103-0017-EVX	4	3	SPDT on-on	6 @ 125 & 3 @ 250	.63 x .63 x .72	—	.19	Solder lugs	1.95	1.75	1.49
2268663	MSW	103-4023-EV	5	3	SPDT on-on	6 @ 125 & 3 @ 250	.585 x .534 x .76	.185	—	Solder lugs	2.25	1.95	1.75
2269527	MSW	108-1MS2T2B4M6QE	2	3	SPDT on-(on)	5 @ 125 & 2 @ 250	.50 x .50 x .40	—	.20	PC right angle	2.49	2.25	1.95
2269599	MSW	108-1MS2T2B3M1QE	3	3	SPDT on-(on)	5 @ 125 & 2 @ 250	.50 x .27 x .51	—	.19	Solder lugs	2.49	2.25	1.95
2269535	MSW	1055-TA2135-EVX	3	3	SPDT on-off-on	6 @ 125 & 3 @ 250	.51 x .29 x .62	—	.19	Solder lugs	2.49	2.25	1.95
2268103	MSW	108-0002-EVX	3	3	SPDT on-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .51	—	.19	Solder lugs	2.95	2.59	2.29
2268399	MSW	108-0023-EVX	2	3	SPDT (on)-off-(on)	5 @ 125 & 2 @ 250	.50 x .27 x .62	.18	—	PC terminal	2.95	2.59	2.29
2269615	MSW	108-0043-EVX	1	6	DPDT on-on	3 @ 120 & 1 @ 250	.36 x .32 x .47	.20	.10	PC terminal	2.95	2.59	2.29
2269607	MSW	108-2MD1T1B1M1QE	3	6	DPDT on-on	3 @ 120 & 1 @ 250	.36 x .32 x .49	.16	.10	Solder lugs	2.95	2.59	2.29
75977	JVP	66-1005	3	6	DPDT on-on	3 @ 125	.33 x .37 x .33	.17	.10	Solder lugs	1.49	1.25	1.09
2267975	MSW	108-0029-EVX	3	6	DPDT on-on	5 @ 120 & 2 @ 250	.50 x .45 x .51	.19	.19	Solder lugs	2.95	2.59	2.29
2269567	MSW	108-1MD1T6B11M2QE	3	6	DPDT on-on	5 @ 125 & 2 @ 250	.50 x .45 x .60	.20	.19	PC terminal	3.49	3.29	2.96
2269559	MSW	108-1MD2T2B3M1QE	1	6	DPDT on-(on)	5 @ 125 & 2 @ 250	.50 x .45 x .50	.19	.18	Solder lugs	2.95	2.59	2.29

§ Mounting hardware P/N 2182549 on pg 65

\* ALC = Alcoswitch | C&K = C&K Switches | ESW = ElectroSwitch | GCE = GC Electronics | JVP = Jameco ValuePro | MSW = Mountain Switches | NKK = NKK Switches



# Toggle & Rocker Switches



## Subminiature Toggle Switches (Continued)

**NEW**  
MARKED IN PINK

See page 64 for figures

★ Web Code: **NAN**

Part No.	Mfr.	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")		Lead Spacing		Terminal Type	Pricing		
							A"	B"	A"	B"		1	10	100
2266871	MSW	103-4025-EV	5	6	DPDT on-(on)	6 @ 250	.71 x .66 x .80	.20	.19	.19	Solder lugs	\$4.95	\$4.49	\$3.79
2269543	MSW	108-2MD3T2B3M2QE-EVX	1	6	DPDT on-off-on	3 @ 120 & 1 @ 250	.36 x .32 x .47	.20	.10	.10	PC terminal	3.79	3.39	2.95
2268111	MSW	108-2MD3T1B1M2QE-EVX	1	6	DPDT on-off-on	3 @ 120 & 1 @ 250	.36 x .32 x .46	.20	.10	.10	PC terminal	3.79	3.39	2.95
2267951	MSW	108-0031-EVX	3	6	DPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .45 x .51	.19	.19	.19	Solder lugs	3.79	3.39	2.95
2266975	MSW	103-6165-EVX ✓	3	6	DPDT on-off-on	5 @ 125 & 2 @ 250	.50 x .45 x .51	.19	.18	.18	Solder lugs	2.95	1.75	1.49
2267687	MSW	1055-TA1365-EVX	1	6	DPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .47 x .67	.19	.19	.19	PC terminal	3.79	3.39	2.95
2268335	MSW	1055-TA1165-EVX	3	6	DPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .48 x .62	.19	.19	.19	Solder lugs	3.79	3.39	2.95
2266983	MSW	103-6175 ✓	3	6	DPDT (on)-off-(on)	5 @ 125 & 2 @ 250	.50 x .45 x .51	.19	.19	.19	Solder lugs	2.95	1.75	1.49
2268119	MSW	108-0006-EVX	3	9	3PDT on-off-on	5 @ 120 & 2 @ 250	.65 x .50 x .57	.19	.19	.19	Solder lugs	4.95	4.49	3.95
2267927	MSW	108-0007-EVX	3	12	4PDT on-off-on	5 @ 120 & 2 @ 250	.85 x .50 x .57	.19	.19	.19	Solder lugs	4.95	4.49	3.95
2182549	JVP	10-48HDWR	6	—	Additional 10-48UNS threaded panel mounting hardware for above switches indicated with \$							.59	.49	.39

✓ Sealed



JAMECO ValuePro

## Standard Appliance Panel Mount Rocker Switches



★ Web Code: **VBU**



Part No.	Mfr.	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")		Lead Space		Rocker Color	Terminal Type	Pricing		
							A"	B"	A"	B"			1	10	100
2268199	JVP	R13-213A-03-BR	1	2	SPST off-on	6 @ 125 & 3 @ 250	.48 x .43 x .65	—	.12	.12	Red	Solder lugs	\$1.75	\$1.49	\$1.25
2268127	JVP	R13-228B-05-BRR-N1	1	3	SPST off-on	10 @ 125 & 6 @ 250	1.1 x .71 x .67	—	.21	.21	Red illum.	Solder lugs	1.19	1.09	.99
2269743	JVP	112-R13-73B-02-Y	2	3	SPST off-on	10 @ 125 & 6 @ 250	.72 x .51 x .87	.36	.32	.32	Yellow illum.	.187" quick connect	1.95	1.75	1.49
2269767	JVP	112-R13-73B-02-R	2	3	SPST off-on	10 @ 125 & 6 @ 250	.72 x .51 x .87	.32	.36	.36	Red illum.	.187" quick connect	1.95	1.75	1.49
2268343	JVP	R13-66A-02-BB	3	2	SPST off-on	10 @ 125 & 6 @ 250	.73 x .51 x .80	—	.28	.28	Black	.187" quick connect	1.49	1.25	1.09
2268015	MSW	R13-228B-05-BGG-N1	1	2	SPST off-on	10 @ 125 & 6 @ 250	.63 Dia. x .67 (T)	—	.21	.21	Green illum.	Solder lugs	1.95	1.75	1.49
2231355	BLN	R13-1351-02	4	2	SPST off-on	16 @ 125	.90 x .90 x .57	.27	—	—	Black	.187" quick connect	1.95	1.75	1.49
2172738	JVP	1901	5	2	SPST on-off	4 @ 125 & 6 @ 250	.74 x .26 x .61	.37	—	—	Black	PCB leads	.79	.69	.59
2208198	JVP	RS-001G-A-BB-4	6	2	SPST on-off	6 @ 125 & 3 @ 250	.59 x .41 x .75	—	.20	.20	Black	.145" quick connect	.75	.65	.55
2269791	JVP	112-R13-241A-05	7	2	SPST on-off	6 @ 125 & 3 @ 250	.59 x .54 x .76	—	.19	.19	Black	Solder lugs	1.95	1.75	1.49
2267303	MSW	103-7059-EVX	8	2	SPST on-off	8 @ 125 & 6 @ 250	.87 x .51 x .77	.32	.32	.32	Black illum.	Solder lugs	1.25	1.09	.99
2267311	MSW	103-7060-EVX	8	2	SPST on-off	8 @ 125 & 6 @ 250	.87 x .51 x .77	.32	—	—	Black	Solder lugs	1.09	.99	.85
2267319	MSW	103-7061-EV	9	2	SPST on-off	8 @ 125 & 8 @ 250	.72 x .47 x .67	.28	—	—	Black	.187" quick connect	1.09	.99	.85
2267327	MSW	103-7062-EV	9	3	SPST on-off	8 @ 125 & 8 @ 250	.72 x .47 x .67	.28	—	—	Red illum.	.187" quick connect	1.25	1.09	.99
316048	JVP	R13-66B-G-02	2	3	SPST on-off	9 @ 125 & 6 @ 250	.83 x .59 x .47	.31	.31	.31	Green illum.	.187" quick connect	1.49	1.25	1.09
316128	JVP	R13-73B-R-02	2	3	SPST on-off	9 @ 125 & 6 @ 250	.83 x .59 x .87	.35	.35	.35	Red illum.	.187" quick connect	1.49	1.25	1.09
316451	JVP	R13-243A-02	10	2	SPST on-off	10 @ 125 & 6 @ 250	.83 x .37 x .85	.35	—	—	Black	.187" quick connect	.99	.89	.75
2234345	JVP	HM-RS-03	2	2	SPST on-off	10 @ 125 & 6 @ 250	.83 x .59 x .55	.31	—	—	Black	5.5" wire leads	1.75	1.49	1.25
2218839	JVP	RS-105A-BB-3-UL	11	2	SPST on-off	10 @ 125 & 6 @ 250	.91 x .78 x .70	.30	—	—	Black	.187" quick connect	.99	.89	.75
2267183	MSW	103-7036-EV	12	3	SPST on-off	10 @ 125 & 6 @ 250	1.2 x .55 x .95	.39	—	—	Red illum.	.250" quick connect	1.95	1.75	1.49
2267199	MSW	103-7038-EV	12	2	SPST on-off	10 @ 125 & 6 @ 250	1.2 x .55 x .95	.39	—	—	Black	.250" quick connect	1.95	1.75	1.49
2267535	MSW	103-R13-211A-02-EV	13	2	SPST on-off	10 @ 125 & 6 @ 250	.76 x .51 x .74	—	.27	.27	Black	.187" quick connect	1.75	1.49	1.25
2269799	JVP	R13-89A-01	12	2	SPST on-off	10 @ 125 & 6 @ 250	1.0 x .47 x .95	—	.38	.38	Black	.250" quick connect	1.95	1.75	1.49
577221	CHY	RRA22H3BBBNN	11	2	SPST on-off	12 @ 125 & 10 @ 250	.69 x .51 x .64	.35	—	—	Black	.187" quick connect	1.49	1.25	1.09
316022	JVP	R13-66A-R-02	6	2	SPST on-off	15 @ 125 & 8 @ 250	.83 x .59 x .63	.31	—	—	Red	.187" quick connect	.99	.89	.75
2267375	MSW	103-7072-EV	14	3	SPST on-off	15 @ 125 & 10 @ 250	1.3 x .54 x 1.22	.36	.37	.37	Green illum.	.250" quick connect	1.49	1.25	1.09
2268223	MSW	103-R13-72A-EV	14	2	SPST on-off	15 @ 125 & 10 @ 250	1.1 x .54 x 1.3	—	.37	.37	Black	.250" quick connect	1.25	1.09	.99
316014	JVP	R13-66A-B-02	6	2	SPST on-off	16 @ 125 & 10 @ 250	.83 x .59 x .63	.31	—	—	Black	.187" quick connect	.99	.89	.75
2201914	HNY	028-01011-00	12	2	SPST on-off	16 @ 125 & 12 @ 250	1.3 x .55 x .90	.26	—	—	Black	.250" quick connect	.69	.59	.49
2268247	MSW	103-R13-205A3-01-EV	12	2	SPST on-off	16 @ 125 & 10 @ 250	1.1 x .54 x 1.22	—	.37	.37	Black	.250" quick connect	1.75	1.49	1.25
2269823	JVP	R13-91B-01-BR	12	3	SPST on-off	16 @ 125 & 10 @ 250	1.1 x .43 x 1.0	—	.44	.44	Red illum.	.250" quick connect	1.95	1.75	1.49
2269735	JVP	R13-91B-01-BG	12	3	SPST on-off	16 @ 125 & 10 @ 250	1.1 x .43 x 1.0	—	.44	.44	Green illum.	.250" quick connect	1.95	1.75	1.49
2269831	JVP	R13-238A-01	15	2	SPST on-off	16 @ 125 & 10 @ 250	1.0 x .50 x 1.1	—	.37	.37	Black	.250" quick connect	1.95	1.75	1.49
2267207	MSW	103-7043-EVX	16	2	SPST on-off	16 @ 125 & 10 @ 250	1.7 x .82 x 1.5	—	.46	.46	Black (on-off)	.250" quick connect	2.95	2.59	2.29
2267231	MSW	103-7046-EV	12	3	SPST on-off	16 @ 125 & 10 @ 250	1.0 x .43 x 1.0	.43	—	—	Green illum.	.250" quick connect	1.95	1.75	1.49

Continued on next page

\* BLN = Bulgin | CHY = Cherry | HNY = Honeywell | JVP = Jameco ValuePro | MSW = Mountain Switch

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# Rocker Switches

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## Standard Appliance Panel Mount Rocker Switches (Cont.)

See page 65 for figures

Web Code: VBU

Part No.	Mfr.	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	Lead Space		Rocker Color	Terminal Type	Pricing		
								A"	B"			1	10	100
2267239	MSW	103-7048-EV	12	3	SPST on-off	16 @ 125 & 10 @ 250	1.0 x .43 x 1.0	.43	—	Green illum.	.250" quick connect	\$ 2.95	\$2.59	\$2.29
2267247	MSW	103-7049-EV	12	3	SPST on-off	16 @ 125 & 10 @ 250	1.0 x .43 x 1.0	.43	—	Orange illum.	.250" quick connect	1.95	1.75	1.49
2267255	MSW	103-7050-EV	12	3	SPST on-off	16 @ 125 & 10 @ 250	1.0 x .43 x 1.0	.43	—	Red illum.	.250" quick connect	1.95	1.75	1.49
2267263	MSW	103-7051-EV	11	2	SPST on-off	16 @ 125 & 10 @ 250	.84 Dia. x .80	.28	—	Black	.187" quick connect	.79	.69	.59
2267271	MSW	103-7052-EV	11	3	SPST on-off	16 @ 125 & 10 @ 250	.84 Dia. x .80	.28	—	Orange illum.	.187" quick connect	1.09	.99	.85
2267279	MSW	103-7053-EV	11	3	SPST on-off	16 @ 125 & 10 @ 250	.84 Dia. x .80	.28	—	Red illum.	.187" quick connect	1.09	.99	.85
2267287	MSW	103-7055-EV	11	3	SPST on-off	16 @ 125 & 10 @ 250	.84 Dia. x .80	.28	—	Green illum.	.187" quick connect	1.09	.99	.85
2267295	MSW	103-7056-EV	11	3	SPST on-off	16 @ 125 & 10 @ 250	.84 Dia. x .80	.28	—	Red illum.	.187" quick connect	1.49	1.25	1.09
2267519	MSW	103-R13-112LP-02Y-E	17	4	SPST on-off	16 @ 125 & 10 @ 250	.80 Dia. x .89	—	.28	Yellow illum.	.187" quick connect	2.95	2.59	2.29
2267335	MSW	103-7063-EV	18	2	SPST on-off	16 @ 125 & 10 @ 250	1.4 x .69 x .96	—	.38	Black	.250" quick connect	1.25	1.09	.99
2267343	MSW	103-7063-EVX	18	2	SPST on-off	16 @ 125 & 10 @ 250	1.4 x .69 x .96	—	.39	Black	.250" quick connect	1.25	1.09	.99
2268007	MSW	103-7081-EV	5	2	SPST on-off	16 @ 125 & 10 @ 250	1.2 x .43 x 1.1	—	.34	Black	.250" quick connect	1.25	1.09	.99
2267351	MSW	103-7064-EV	18	3	SPST on-off	16 @ 125 & 10 @ 250	1.4 x .69 x .96	—	.18	Red illum.	.250" quick connect	1.49	1.25	1.09
2267359	MSW	103-7065-EV	18	3	SPST on-off	16 @ 125 & 10 @ 250	1.4 x .69 x .96	—	.39	Red illum.	.250" quick connect	1.49	1.25	1.09
2267399	MSW	103-7075-EV	19	6	SPST on-off	16 @ 125 & 10 @ 250	1.0 x .87 x 1.13	.43	.43	Red/Red illum.	.250" quick connect	2.95	2.59	2.29
2267407	MSW	103-7076-EV	20	5	SPST on-off	16 @ 125 & 10 @ 250	1.0 x .87 x 1.13	.43	.43	Yellow illum.	.250" quick connect	3.95	3.59	3.29
2267447	MSW	103-7082-EV	12	3	SPST on-off	16 @ 125 & 10 @ 250	1.0 x .43 x 1.08	—	.34	Red illum.	.250" quick connect	1.95	1.75	1.49
2267455	MSW	103-7083-EV	12	3	SPST on-off	16 @ 125 & 10 @ 250	1.0 x .43 x 1.08	—	.34	Yellow illum.	.250" quick connect	1.95	1.75	1.49
2267463	MSW	103-7084-EV	12	3	SPST on-off	16 @ 125 & 10 @ 250	1.0 x .43 x 1.08	—	.34	Green illum.	.250" quick connect	1.95	1.75	1.49
2267471	MSW	103-R13-91A-EV	12	2	SPST on-off	16 @ 125 & 10 @ 250	1.0 x .43 x 1.1	—	.42	Black	.250" quick connect	1.25	1.09	.99
2267487	MSW	103-R13-205B-01R-EV	6	3	SPST on-off	16 @ 125 & 10 @ 250	1.2 x .73 x 1.22	—	.37	Red illum.	.250" quick connect	1.95	1.75	1.49
2267999	MSW	103-R13-205L-01G-EV	6	4	SPST on-off	16 @ 125 & 10 @ 250	1.2 x .73 x 1.22	—	.36	Green illum.	.250" quick connect	1.95	1.75	1.49
2267527	MSW	103-R13-205A2-01-EV	6	2	SPST on-off	16 @ 125 & 10 @ 250	1.2 x .73 x 1.22	—	.36	Black/Red	.250" quick connect	1.95	1.75	1.49
2267551	MSW	103-R13-238A-01W-EV	15	2	SPST on-off	16 @ 125 & 10 @ 250	1.1 x .54 x 1.1	—	.37	White illum.	.250" quick connect	1.95	1.75	1.49
2267559	MSW	103-R13-238B-01G-EV	15	3	SPST on-off	16 @ 125 & 10 @ 250	1.1 x .54 x 1.1	—	.37	Green illum.	.250" quick connect	1.95	1.75	1.49
2267567	MSW	103-R13-238B-01R-EV	15	3	SPST on-off	16 @ 125 & 10 @ 250	1.1 x .54 x 1.1	—	.37	Red illum.	.250" quick connect	1.95	1.75	1.49
2268023	MSW	103-7047-EV	5	3	SPST on-off	16 @ 125 & 10 @ 250	1.1 x .43 x 1.0	—	.43	Red illum.	.250" quick connect	2.49	2.25	1.95
2268039	JVP	R13-66L-02-BBGG-L1	6	4	SPST on-off	16 @ 125 & 10 @ 250	.73 x .51 x .74	—	.36	Green illum.	Solder lugs	1.95	1.75	1.49
2268207	MSW	103-R13-205L-01R-EV	14	4	SPST on-off	16 @ 125 & 10 @ 250	1.1 x .54 x 1.2	.37	—	Black	.250" quick connect	1.95	1.75	1.49
2182389	ARN	160112E	6	2	SPST (on)-off	6 @ 125 & 16 @ 250	1.0 x .48 x .98	.38	.38	White	.250" quick connect	.69	.59	.49
2269815	JVP	R13-213C-03-B	1	3	SPDT on-on	6 @ 125 & 3 @ 250	.48 x .43 x .65	—	.13	Black	.110" quick connect	1.49	1.25	1.09
2178566	CWI	GRS-4012-0050	14	3	SPDT on-on	8 @ 125 & 4 @ 250	.74 x .50 x .46	.22	—	Red	.187" quick connect	1.75	1.49	1.25
2267191	MSW	103-7037-EV	12	3	SPDT on-on	10 @ 125 & 6 @ 250	1.2 x .55 x .95	.39	.90	Black	.250" quick connect	1.95	1.75	1.49
2269783	JVP	112-R13-136C-05-B	21	3	SPDT on-on	10 @ 125 & 6 @ 250	.71 Dia. x .62 (T)	.21	.20	Black	Solder lugs	1.49	1.25	1.09
2268303	JVP	R13-136C-05-BB	21	3	SPDT on-on	10 @ 125 & 6 @ 250	.72 Dia. x .76	—	.18	Black	Solder lugs	2.25	1.95	1.75
2268319	JVP	R13-136C-05-BR	21	3	SPDT on-on	10 @ 125 & 6 @ 250	.72 Dia. x .76	—	.18	Red	Solder lugs	2.25	1.95	1.75
2268151	MSW	R13-228C-05-BB	1	3	SPDT on-on	10 @ 125 & 6 @ 250	1.1 x .71 x .67	—	.21	Black	Solder lugs	2.95	2.59	2.29
2267479	MSW	103-R13-135C-02-EV	4	3	SPDT on-on	16 @ 125 & 10 @ 250	.80 x .73 x .57	.28	.28	Black	.187" quick connect	2.25	1.95	1.75
2267391	MSW	103-7074-EVX	20	5	SPDT on-on	16 @ 125 & 10 @ 250	1.0 x .87 x 1.13	.43	.43	Yellow illum.	.250" quick connect	2.95	2.59	2.29
2267671	MSW	R-13-1238-C-01	15	3	SPDT on-on	16 @ 125 & 10 @ 250	1.3 x .50 x 1.1	—	.36	White	.250" quick connect	1.95	1.75	1.49
2267575	MSW	103-R13-238C-01B-EV	15	3	SPDT on-on	16 @ 125 & 10 @ 250	1.1 x .54 x 1.1	—	.37	Black	.250" quick connect	1.95	1.75	1.49
2267583	MSW	103-R13-238C-01W-EV	15	3	SPDT on-on	16 @ 125 & 10 @ 250	1.1 x .54 x 1.1	—	.37	White	.250" quick connect	1.95	1.75	1.49
2267383	MSW	103-7073-EV	19	6	SPDT on-on	16 @ 125 & 10 @ 250	1.0 x .87 x 1.13	.43	.43	Black/Black	.250" quick connect	2.95	2.59	2.29
2268167	JVP	R13-66C-10-BBNN	6	3	SPDT on-on	16 @ 125 & 10 @ 250	.71 x .51 x .74	—	.28	Red	PC right angle	1.95	1.75	1.49
2268183	MSW	103-R13-205C3-01-EV	12	3	SPDT on-on	16 @ 125 & 10 @ 250	1.1 x .54 x 1.2	—	.28	Black	.250" quick connect	1.75	1.49	1.25
2267167	MSW	103-7032-EVX	22	3	SPDT on-off-on	.4VA @ 20VAC/VDC	.32 x .30 x .22	.20	—	Black	SMD	1.95	1.75	1.49
2267175	MSW	103-7034-EVX	22	3	SPDT on-off-on	.4VA @ 20VAC/VDC	.32 x .30 x .22	.20	—	Black	SMD	1.95	1.75	1.49
2267159	MSW	103-7027-EVX	23	3	SPDT on-off-on	3 @ 120 & 1 @ 250	.32 x .22 x .25	1.2	.10	Black	PC right angle	3.95	3.59	3.29
2267103	MSW	103-7017-EVX	24	3	SPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .26 x .57	.185	—	Black	Solder lugs	2.49	2.25	1.95
2267047	MSW	103-7009-EVX	25	3	SPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .27 x .45	.20	.15	Black - Paddle	PC right angle	2.49	2.25	1.95
2182418	DIA	570-12574-1212-0104-007	26	3	SPDT on-off-on	5 @ 125 & 2 @ 250	.50 x .28 x .37	—	.19	Black	PC terminal	.49	.39	.35
2268159	JVP	R13-241D05BB	7	3	SPDT on-off-on	6 @ 125 & 3 @ 250	.59 x .54 x .76	.185	—	Black	Solder lugs	2.49	2.25	1.95
2267543	MSW	103-R13-211D-02-EV	13	3	SPDT on-off-on	10 @ 125 & 6 @ 250	.76 x .51 x .74	—	.28	Black	.187" quick connect	1.49	1.25	1.09
2267367	MSW	103-7066-EVX	16	5	SPDT on-off-on	12 @ 125 & 10 @ 277	1.45 x .75 x 1.81	.60	.47	Red	.250" quick connect	1.49	1.25	1.09
316072	JVP	R13-66D-02	6	3	SPDT on-off-on	16 @ 125 & 10 @ 250	.83 x .59 x .47	.31	.31	Black	.187" quick connect	1.49	1.25	1.09
2267591	MSW	103-R13-238D-01B-EV	15	3	SPDT on-off-on	16 @ 125 & 10 @ 250	1.1 x .54 x 1.1	—	.35	Black	.250" quick connect	1.95	1.75	1.49
2267495	MSW	103-R13-205D3-01-EV	5	3	SPDT on-off-on	16 @ 125 & 10 @ 250	1.2 x .73 x 1.22	—	.36	Black	.250" quick connect	1.09	.99	.85
2268215	MSW	103-R13-238D-01W-EV	15	3	SPDT on-off-on	16 @ 125 & 10 @ 250	1.0 x .50 x 1.1	—	.35	White illum.	.250" quick connect	1.95	1.75	1.49
1945241	ITW	163-099-029	12	3	SPDT on-off-on	16 @ 125 & 12 @ 250	1.2 x .55 x .59	.26	.26	Black	.250" quick connect	1.75	1.49	1.25

\* ALC = Alcoswitch | ARN = Arndt | CWI = CW Industries | DIA = Dialight | ITW = Illinois Tool | JVP = Jameco ValuePro | MSW = Mountain Switch



## Standard Appliance Panel Mount Rocker Switches (Cont.)

**NEW**  
MARKED IN PINK

See page 65 for figures

\*Web Code: **VBU**

Part No.	Mfr.	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	Lead Spaced		Rocker Color	Terminal Type	Pricing		
								A"	B"			1	10	100
2267063	MSW	103-7011-EVX	25	3	SPDT on-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	2.0	.15	Black - Paddle	PC right angle	\$2.49	\$2.25	\$1.95
2267119	MSW	103-7019-EVX	27	3	SPDT on-off-(on)	5 @ 120 & 2 @ 250	.50 x .26 x .55	.185	—	Black	Solder lugs	2.95	2.59	2.29
2268351	JVP	R13-66HPA-02-BB	3	3	SPDT on-off-(on)	16 @ 125 & 10 @ 250	.73 x .51 x .74	—	.28	Black	.187" quick connect	1.49	1.25	1.09
2267055	MSW	103-7010-EVX	24	3	SPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .34 x .6	.185	—	Black	PC terminal	2.95	2.59	2.29
2267111	MSW	103-7018-EVX	23	3	SPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .26 x .48	.185	—	Black	PC right angle	2.95	2.59	2.29
2268047	MSW	R13-66IPA-02BB	3	3	SPDT (on)-off-(on)	10 @ 125 & 6 @ 250	.83 x .59 x .54	.28	.52	Black	.187" quick connect	1.49	1.25	1.09
617473	GCE	35-695	5	3	SPDT (on)-off-(on)	16 @ 125 & 16 @ 250	.93 x .43 x .62	.34	.56	Black	.250" quick connect	3.95	3.59	3.29
2267151	MSW	103-7024-EVX	23	3	SPDT on-none-on	3 @ 120 & 1 @ 250	.32 x .23 x .53	.10	—	Black	PC terminal	2.95	2.59	2.29
2181255	C&K	7101J1V6BE2	26	3	SPDT on-none-on	5 @ 120 & 2 @ 250	.50 x .28 x .37	—	.19	Black	PC terminal	4.95	4.49	3.95
2267071	MSW	103-7013-EVX	24	3	SPDT on-none-on	5 @ 120 & 2 @ 250	.50 x .26 x .57	.185	—	Black	Solder lugs	2.95	2.59	2.29
2267031	MSW	103-7005-EVX	24	3	SPDT on-none-on	5 @ 120 & 2 @ 250	.50 x .27 x .53	.185	—	Black	Solder lugs	2.95	2.59	2.29
2267079	MSW	103-7014-EVX	25	3	SPDT on-none-on	5 @ 120 & 2 @ 250	.50 x .26 x .48	.185	—	Black - Paddle	PC right angle	3.95	3.59	3.29
2267087	MSW	103-7015-EVX	24	3	SPDT on-none-on	5 @ 120 & 2 @ 250	.50 x .26 x .57	.185	—	Black	Solder lugs	2.95	2.59	2.29
2267039	MSW	103-7008-EVX	27	3	SPDT on-none-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .53	.185	—	Black - Paddle	Solder lugs	1.95	1.75	1.49
2267095	MSW	103-7016-EVX	25	3	SPDT on-none-(on)	5 @ 120 & 2 @ 250	.50 x .20 x .48	2.0	.15	Black - Paddle	PC right angle	2.49	2.25	1.95
2269703	MSW	107-DPS-01-4-EV	28	4	SPDT on-(off), off-(on)	12mA @ 24VDC	.69 x .49 x .70	.31	.21	Blue	PC terminal	2.95	2.59	2.29
2269711	MSW	107-DPS-11-5-EV	28	4	SPDT on-(off), off-(on)	12mA @ 24VDC	.70 x .67 x .71	.30	.21	Red	PC terminal	3.49	2.95	2.59
2181722	C&K	7105J1V3QE2	26	3	SPDT none-off-none	5 @ 120 & 2 @ 250	.50 x .28 x .37	—	.19	Black	PC terminal	.69	.59	.49
2269751	JVP	112-R13-73C-02-R	2	4	DPST off-on	10 @ 125 & 6 @ 250	.72 x .51 x .87	.31	.33	Red illum.	.187" quick connect	2.49	2.29	1.95
2269759	JVP	112-R13-73C-02-Y	2	4	DPST off-on	10 @ 125 & 6 @ 250	.72 x .51 x .87	.31	.33	Yellow illum.	.187" quick connect	2.49	2.29	1.95
2268095	JVP	R13-104B-BRR-N1	4	4	DPST off-on	16.1 @ 125 & 10 @ 250	1.2 x .99 x 1.2	.43	.35	Red illum.	.250" quick connect	1.95	1.75	1.49
2267639	MSW	103-R13-245A-02-EV	11	4	DPST on-off	8 @ 125 & 8 @ 250	1.0 Dia. x .84	.41	.28	Black	.187" quick connect	1.25	1.09	.99
2267647	MSW	103-R13-245B-02G-EV	11	4	DPST on-off	8 @ 125 & 8 @ 250	1.0 Dia. x .84	.41	.28	Green illum.	.187" quick connect	1.75	1.49	1.25
2267655	MSW	103-R13-245B-02R-EV	11	4	DPST on-off	8 @ 125 & 8 @ 250	1.0 Dia. x .84	.38	.27	Red illum.	.187" quick connect	1.75	1.49	1.25
316153	JVP	R13-73C-R-02	2	4	DPST on-off	10 @ 125 & 6 @ 250	.83 x .59 x .87	.20	.34	Red illum.	.187" quick connect	1.75	1.49	1.25
2158522	JVP	GP12311100H00	2	4	DPST on-off	10 @ 125 & 8 @ 250	.83 x .59 x .63	.20	.34	Black	.187" quick connect	1.75	1.49	1.25
316111	JVP	R13-73A2-B-02	2	4	DPST on-off	12 @ 125 & 6 @ 250	.83 x .59 x .68	.20	.34	Black	.187" quick connect	1.75	1.49	1.25
2267503	MSW	103-R13-240B-01G-E	21	4	DPST on-off	16 @ 125	1.0 x 1.0 x 1.2	.37	.47	Green illum.	.250" quick connect	2.49	2.29	1.95
2267607	MSW	103-R13-240B-01R-EV	21	4	DPST on-off	16 @ 125	1.1 x 1.0 x 1.22	—	.47	Red illum.	.250" quick connect	2.49	2.29	1.95
2181271	OTT	K2ABHLCADA	29	4	DPST on-off	16 @ 125/250	1.06 x .65 x 1.45	—	—	Green illum.	.187" quick connect	14.95	13.49	11.95
2267431	MSW	103-7079-EV	6	4	DPST on-off	16 @ 125 & 10 @ 250	1.0 x 1.0 x 1.1	.34	.39	Red illum.	.250" quick connect	2.95	2.59	2.29
2267439	MSW	103-7080-EV	6	4	DPST on-off	16 @ 125 & 10 @ 250	1.0 x 1.0 x 1.0	.34	.39	Green illum.	.250" quick connect	2.95	2.59	2.29
2267623	MSW	103-R13-244A-02-EV	11	4	DPST on-off	16 @ 125 & 10 @ 250	.83 Dia. x .96	.31	.20	Black	.187" quick connect	1.95	1.75	1.49
2267631	MSW	103-R13-244B-02R-EV	11	4	DPST on-off	16 @ 125 & 10 @ 250	.83 Dia. x .96	.30	.21	Red illum.	.187" quick connect	1.95	1.75	1.49
2267599	MSW	103-R13-240B-01R	21	4	DPST on-off	16 @ 125 & 10 @ 250	1.1 x 1.0 x 1.22	—	.47	Red illum.	.250" quick connect	2.95	2.59	2.29
2267991	JVP	R13-104-B-G	4	4	DPST on-off	16 @ 125 & 10 @ 250	1.2 x 1.2 x 1.2	.44	.36	Green illum.	.250" quick connect	1.95	1.75	1.49
2267415	MSW	103-7077-EV	21	4	DPST on-off	16 @ 125 & 10 @ 250	1.0 x 1.2 x 1.17	.34	.433	Red illum.	.250" quick connect	1.95	1.75	1.49
2267423	MSW	103-7078-EV	6	4	DPST on-off	16 @ 125 & 10 @ 250	1.0 x 1.0 x 1.1	.34	.39	Black	.250" quick connect	1.95	1.75	1.49
2267223	MSW	103-7045-EVX	16	4	DPST on-off	16 @ 125 & 10 @ 250	1.7 x .82 x 1.5	.43	.47	Black	.250" quick connect	3.95	3.59	3.29
2188641	CHY	WRG32F2FYNN	30	6	DPST on-off	16 @ 125 & 16 @ 250	1.06 x .85 x 1.14	.42	.43	Gray	.250" quick connect	.99	.89	.75
2269695	JVP	R13-104A-01-BB	4	4	DPST on-off	16.1 @ 125 & 10 @ 250	1.2 x .99 x 1.2	.43	.35	Black	.250" quick connect	1.95	1.75	1.49
2269807	JVP	R13-213B-03-R	1	6	DPDT on-on	6 @ 125 & 3 @ 250	.48 x .43 x .64	.19	.12	Red	.110" quick connect	1.95	1.75	1.49
2267663	MSW	103-R13-245C-02-EV	11	4	DPDT on-on	8 @ 125 & 8 @ 250	1.0 Dia. x .84	.39	.27	Black	.187" quick connect	1.49	1.25	1.09
2268031	MSW	R13-136B-05-BR	21	6	DPDT on-on	10 @ 125 & 6 @ 250	.71 Dia. x .55	—	.35	Red	Solder lugs	1.49	1.25	1.09
2268071	JVP	R13-49B-05-BB	21	6	DPDT on-on	10 @ 125 & 6 @ 250	.71 Dia. x .44	.20	.18	Black	Solder lugs	1.49	1.25	1.09
2269775	JVP	112-R13-136B-B	21	6	DPDT on-on	10 @ 125 & 6 @ 250	.71 Dia. x .62 (T)	.20	.20	Black	Solder lugs	1.49	1.25	1.09
2268055	MSW	R13-104C-01-BB	4	6	DPDT on-on	16.1 @ 125 & 10 @ 250	1.2 x 1.2 x 1.2	.44	.35	Black	.250" quick connect	1.95	1.75	1.49
2267015	MSW	103-7002-EVX	27	6	DPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .45 x .53	.19	.185	Black	Solder lugs	1.95	1.75	1.49
2267143	MSW	103-7023-EVX	23	6	DPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .45 x .48	.19	.15	Black	PC right angle	2.95	2.59	2.29
2267919	MSW	1055-RA1165	24	6	DPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .48 x 1.03	.19	.18	Black	Solder lugs	1.75	1.49	1.25
2267615	MSW	103-R13-240D-01-EV	21	6	DPDT on-off-on	16 @ 125 & 10 @ 250	1.1 x 1.0 x 1.22	.20	.19	Black	.250" quick connect	1.49	1.25	1.09
2267215	MSW	103-7044-EVX	31	6	DPDT on-off-on	16 @ 125 & 10 @ 250	1.7 x .82 x 1.5	.45	.27	Black	.250" quick connect	2.95	2.59	2.29
2181183	C&K	ET21J1ABE2	23	6	DPDT on-none-on	4VA @ 20VAC/VDC	.37 x .32 x .36	—	.10	Black	PC terminal	6.95	6.25	5.59
2267127	MSW	103-7021-EVX	25	6	DPDT on-none-on	5 @ 120 & 2 @ 250	.50 x .45 x .48	.15	.185	Black	PC right angle	3.49	2.95	2.59
2266999	MSW	103-7001-EV	23	6	DPDT on-none-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .48	.15	.185	Black	PC right angle	1.95	1.75	1.49
2267007	MSW	103-7001-EVX	23	6	DPDT on-none-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .48	.15	.185	Black	PC right angle	2.49	2.25	1.95
2267135	MSW	103-7022-EVX	24	6	DPDT on-none-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .57	.19	.185	Black	Solder lugs	3.49	2.95	2.59
2267023	MSW	103-7003-EVX	24	9	3PDT on-none-on	5 @ 120 & 2 @ 250	.65 x .50 x .69	.19	.185	Black	PC terminal	3.49	2.95	2.59
2266991	MSW	103-7000	23	12	4PDT on-none-on	5 @ 120 & 2 @ 250	.85 x .50 x .53	.19	.15	Black	PC right angle	3.95	3.59	3.29

Electromech

\* C&K = C&K Switches | CHY = Cherry | GCE = GC Electronics | JVP = Jameco ValuePro | MSW = Mountain Switches | OTT = Otto

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Rotary, DIP & Keylock Switches

3 LEVELS OF SAVINGS		
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## Rotary Switches

\*Web Code: TMU

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Part No.	Mfr.	Product No.	Fig.	Poles	Pos.	Rating		Index Angle	Dimensions L" x Dia."	Shaft			Terminal	Contact Style	Pricing		
						Current (mA)	Voltage (VAC)			Dia.	Length	Type			1	10	100
2184464	JVP	SR2511F-0107✓	1	1	7	300	125	30°	1.46 x 1.22	.285"	.500"	Round	Solder	Shorting <sup>1</sup>	\$3.49	\$2.95	\$2.75
2236210	ALP	SR2513F-19S✓	1	1	10	300	125	30°	1.51 x 1.22	.245"	.375"	Round	Solder	Shorting <sup>1</sup>	2.75	2.25	1.85
2236181	ALP	SR2513-110NS†	2	1	10	300	125	30°	1.36 x 1.22	.235"	.437"	D	PCB	Non-shorting <sup>2</sup>	2.75	2.25	1.85
2236201	ALP	SR2513-112NS†	2	1	12	300	125	30°	1.36 x 1.22	.235"	.437"	D	PCB	Non-shorting <sup>2</sup>	2.75	2.25	1.85
2236199	ALP	SR2513-24NS†	2	2	4	300	125	30°	1.36 x 1.22	.235"	.437"	D	PCB	Non-shorting <sup>2</sup>	2.75	2.25	1.85
2170353	ALP	SR2511F-25FN†✓	3	2	5	300	125	30°	1.56 x 1.22	.245"	.312"	D	Solder	Non-shorting <sup>2</sup>	2.75	2.25	1.85
2167533	ALP	SR2513-26NS†	2	2	6	300	125	30°	1.35 x 1.22	.235"	.437"	D	PCB	Non-shorting <sup>2</sup>	2.75	2.25	1.85
2236244	ALP	SR2513-43NS†	2	4	3	300	125	30°	1.36 x 1.22	.235"	.437"	D	PCB	Non-shorting <sup>2</sup>	2.75	2.25	1.85
2267695	ALP	SR2513-34NS	4	3	4	300	125	30°	1.36 x 1.22	.235"	.437"	D	PCB	Non-shorting <sup>2</sup>	2.75	2.25	1.85
2167322	JVP	KC52A13-00NPS**†	5	1	12	300/150	125/250	30°	1.53 x 1.10	.235"	.450"	D	PCB	Non-shorting <sup>2</sup>	1.95	1.75	1.49
101574	JVP	G3SR022**✓	6	2	6	300/300	125/30VDC	45°	1.57 x 1.19	.235"	.500"	Slotted knurl	Solder	Shorting <sup>1</sup>	1.95	1.75	1.49
101558	JVP	G35SR24**✓	6	4	3	300/300	125/30VDC	30°	1.51 x 1.19	.235"	.500"	Slotted knurl	Solder	Shorting <sup>1</sup>	1.95	1.75	1.49
101532	JVP	G3SR026**✓	6	1	12	300/300	125/30VDC	30°	1.57 x 1.19	.235"	.500"	Slotted knurl	Solder	Shorting <sup>1</sup>	1.95	1.75	1.49
101566	JVP	G3SR023**✓	6	3	4	300/300	125/30VDC	45°	1.57 x 1.20	.235"	.500"	Slotted knurl	Solder	Shorting <sup>1</sup>	1.95	1.75	1.49
2236236	LOR	CK2407†	7	2	6	1/150	24VDC/250	30°	1.54 x 1.08	.245"	.375"	D	Solder	Non-shorting <sup>2</sup>	2.95	2.59	2.29
2236228	LOR	CK1026†	7	3	4	1/150	24VDC/250	30°	2.30 x 1.08	.245"	1.15"	D	Solder	Non-shorting <sup>2</sup>	4.95	4.49	3.95
2132234	C&K	A30403RNCBE✓	5	3	4	2.5A/350	125/250	30°	1.40 x 1.10	.250"	.375"	D	PCB	Non-shorting <sup>2</sup>	8.95	7.95	6.95
576501	C&K	A11215RNZQ†	7	1	12	2.5A/350	125/250	30°	2.63 x 1.12	.245"	1.50"	D	Solder	Non-shorting <sup>2</sup>	5.95	5.39	4.95

✓ Panel mount hardware P/N 2182709 (M9 hardware)

\*Panel mount hardware P/N 2186030 (3/8-32 hardware)

†Knobs for D shaft P/Ns 2236041 & 2236113

\*\*Knobs for slotted knurl P/N 2235778

1 Make before break

2 Break before make

## Standard, Low Profile, Piano & Right Angle DIP Switches

\*Web Code: UCY

- Switch contacts: SPST
- Piano switches have raised lever

JAMECO ValuePro



Compatible Socket Chart, see page 9 for Sockets

Switch	Socket	Switch	Socket	Switch	Socket	Switch	Socket
2-position	112193	5-position	112214	8-position	112222	10-position	38608
3-position	112193	6-position	112214	9-position	112231	12-position	112264
4-position	112206	7-position	112214				

Part No.	Product No.	Mfr.	Type	Pos.	Pricing			
					1	10	100	500
788408	78F01T	GRY	1,5	1	\$1.95	\$1.75	\$1.49	\$1.25
109059	206-2-VP-R	JVP	1,5	2	.69	.65	.59	.55
1951385	206-2LP	JVP	2,6	2	.59	.55	.49	.45
2076156	SDAX-2RX-X	BNS	1,3,5	2	.49	.45	.35	.29
206359	206-3	JVP	1,5	3	.69	.65	.59	.55
388220	DT-04VP	JVP	1,5	4	.89	.79	.69	.65
696950	78B04ST	GRY	1,5	4	.99	.89	.79	.69
472690	78J04	GRY	1,5	4	2.49	2.25	1.95	1.75
2082231	3-4356405	TCY	1,7	4	.99	.89	.79	.69
696888	76SB04	GRY	1,7	4	.99	.89	.79	.69
206499	DPS801	FUJ	2,4,9	4	.99	.89	.79	.69
2082505	206-517	ADT	1,7	5	.79	.69	.59	.49
546759	3-435668-5	TCY	1,8	5	.99	.89	.79	.69
2082513	435668-4	TCY	1,8	5	1.95	1.75	1.49	1.25
38826	206-6	JVP	1,5	6	.75	.65	.59	.55
2076201	A6D-6100LP	OMN	2,6	6	1.49	1.25	1.09	.99
2181175	DP06	C&K	1,4,9	6	.79	.69	.59	.49

Part No.	Product No.	Mfr.	Type	Pos.	Pricing			
					1	10	100	500
2082257	DP07	C&K	1,5	7	.79	.69	.59	.49
472569	78B07S	GRY	1,5	7	.99	.89	.79	.69
2082450	76RSB07S	GRY	1,8	7	.99	.89	.79	.69
38842	206-8	JVP	1,5	8	.79	.69	.65	.59
696984	78B08T	GRY	1,5	8	.99	.89	.79	.69
696917	76SB08ST	GRY	1,7	8	1.39	1.25	1.09	.99
139012	DK-08R	JVP	2,6	8	.99	.79	.69	.59
1932707	382758-8	TCY	1,4,8	8	1.75	1.49	1.25	1.09
2228771	ADP08†	ALC	1,4,9	8	1.75	1.49	1.25	1.09
2082476	JS8722-9	JVP	1,5	9	.89	.79	.69	.59
2082273	1109-6952	SAE	1,6	9	.69	.59	.49	.39
38797	206-10	JVP	1,5	10	.99	.89	.79	.69
2082281	JS8800-10	SMK	1,6	10	.69	.59	.49	.39
2133544	90B10SL	GRY	2,8	10	1.95	1.75	1.49	1.25
2082290	902018	JVP	1,6	12	.99	.89	.79	.69
206481	2-435802-2	TCY	1,4,8	12	1.95	1.75	1.49	1.25

\* 1. Standard; 2. Low Profile; 3. Right Angle; 4. Piano Style; 5. Slide Raised; 6. Slide Flush; 7. Rocker Raised; 8. Rocker Flush; 9. Lever Up/Down † 0.08" lever

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## Round Keylock Switches

- Used in computer and other security systems
- Two keys
- Keys marked

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\*Web Code: RAN

Part No.	Mfr.	Product No.	Removal Position	Description	Type	No. Flats	Dia. x Length (in)	Terminal	Voltage/Current (VAC/A)	Pricing		
										1	10	100
2229757	ADT	Z Keylock	1	252 cabinet lock	N/A	2	0.63 x 0.75	N/A	Non-electrical	\$2.95	\$2.59	\$2.25
2167710	LOR	KC77362	4	DC800	SP4T	0	0.86 x 1.20	Solder	110/35	1.95	1.75	1.49
2235031	SEM	S2016	1	2016	SPST	1	0.69 x 1.52	Barrel	125/1	3.95	3.59	3.29
2220613	JVP	S126-2	2	1001	SPST	2	0.41 x 0.75	Barrel	125/3	5.59	5.05	4.59
196649	JVP	3313E-M	2	2341	SPST	2	0.66 x 1.46	.25" quick conn	125/6	5.95	5.39	4.79
105832	JVP	KS3B	2	2001, 2007, 2024	SPST	2	0.65 x 1.50	.25" quick conn	125/6	5.95	5.39	4.79
2235022	C&K	H10113-2F-205NQ	2	A126	SPDT	2	0.69 x 1.70	.11" quick conn	125/12; 250/6	10.95	9.95	8.95
2181028	TCY	RM201-0	2	E1	N/A	2	1.17 x 1.95	Snap in	125/6	7.95	6.95	6.25



\* ALC = Alcoswitch | ALP = Alpha | ADT = Arndt | BNS = Bourns | C&K = C&K Switches | FUJ = Fujitsu | GRY = Grayhill | JVP = ValuePro | LOR = Lorin Elec. | OMN = Omron | SAE = SAE | SEM = Semco | SMK = SMK Elec. | TCY = TE Connectivity

# Rotary DIP, Tactile & Speciality Switches

## Rotary DIP Switch

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
- Op. force: 500g-cm max.
- Size: .39"W x .39"D
- Lead spacing: A = 0.1"; B = 0.3"
- Material: UL94V-0 grade
- Terminals: PC pin leads
- Life: 10,000 cycles min.

Part No.	Mfr. Part No.	Type	Pos.	1	10	100
139636	ERD110RSZ	BCD	10	\$2.25	\$1.95	\$1.75
2272631	94HAB10RAT	BCD	10	2.95	2.59	2.29

## Centrifugal Force Switch

- Contact rating: 0.4VA (max.) @ 20VAC or 20VDC
- Normally open (NO)
- Triggers @ 1.5g (min.) to 5g
- Dielectric strength: 500VDC min. for 1 min.
- Insulation resistance: 1000MΩ (min.)
- Apps: rotational devices, tire centrifugal force detection, direction or axis motion, motion control
- Life: 100,000 cycles (typical)

Part No.	Mfr. Part No.	1	10	100
2126563	RV-RUG-00-000-BB	\$4.5	\$3.5	\$2.5

## Inline Cord Switch

- Contact form: SPST on-off
- Terminal: solder
- Contact rating: 6A @ 120VAC
- Black plastic body
- Rocker actuator

Part No.	Mfr. Part No.	1	10	100
621270	35-1851-BU	\$3.95	\$3.59	\$3.25

## Reed Alarm Switch

- Housing: white ABS
- Contact rating: DC 100V/0.5A
- Standard type magnetic switch: NO & NC
- Mounting with screws or double-sided tape

Part No.	Size (in.)	1	10	100
2131143	2.5 x 0.5 x 0.5	\$6.59	\$5.95	

## PIR Motion Sensor

This highly integrated module is most commonly used for motion and entry detection. It is compatible with microcontrollers or other DC loads. Can detect motion up to 7.5 feet away.

- Application: switch, motion sensor, thief-guarding system, industrial automation

Part No.	Description	1	0
2217713	4.5~20VDC input voltage	\$6.95	\$6.25

## Binary Coded Decimal (BCD) Switch

- Contact resistance: 100mΩ max.
- Contacts: gold plated BE-CU alloy
- Front snap-tab mounting with end plate
- Continuous load: 1 amp max.
- Character height: 0.25"
- 28VDC @ 0.15A

Part No.	Description	Size (L" x W" x D")	1	10	100
----------	-------------	---------------------	---	----	-----

26818	10-pos. thumbwheel	1.2 x 0.3 x 1.9	\$4.49	\$3.95	
26771	End plates for 26818 (2)	1.2 x 0.2 x 1.3	1.25	1.09	

## Tactile Switches

- Bounce time: 10 msec.
- SPST momentary ON
- Lead type: PC
- Contact resistance: 100mΩ



Part No.	Mfr.	Product No.	Fig.	Pins	Contact Rating (mA @ VDC)	Dimensions (ins.)	Lead Spacing	Button Color	Pricing
2258742	ALP	SKEGACA010	1	2	5 @ 12	.23 .23 .21	.07	Ivory	\$2.9 \$2.5 \$1.9
1586074	PAN	EVQ-PAG04K	2	4	20 @ 12	.24 .24 .14	.05	Black	.25 .19 .15
199726	PAN	EVQ11A04M	3	2	20 @ 15	.24 .24 .14	.03	White	.39 .29 .25
2095120	PAN	EVQ11L07K	3	2	20 @ 15	.24 .24 .14	.11	Black	.39 .35 .29
119011	JVP	KT11B1CM	2	4	20 @ 15	.24 .24 .15	.03	Black	.35 .29 .25
149948	JVP	KT11P4CM	4	4	20 @ 15	.24 .24 .15	.13	Black	.35 .29 .25
122973	JVP	DTS1212	5	4	20 @ 15	.47 .47 .18	.20	Black	.39 .35 .29
2260800	JVP	SKRGAFD010-W	3	2	50 @ 12	.24 .24 .14	.19	White	.25 .19 .15
2162791	ALP	SKHLAA010	6	2	50 @ 12	.24 .14 .14	.06	Black	.25 .15 .12
155249	JVP	KRS-3550-BK	6	2	50 @ 12	.24 .14 .15	.27	Brown	.35 .29 .25
2228842	OMN	B3F-1026	2	4	50 @ 12	.24 .24 .15	.06	Blue	.35 .29 .25
153252	JVP	SDT620K	2	4	50 @ 12	.24 .24 .15	.06	Black	.35 .29 .25
155380	JVP	KRS-1273B	7	4	50 @ 12	.47 .47 .14	.14	Brown	.45 .39 .35
2231603	OMN	B3F-1001	2	4	50 @ 24	.24 .24 .13	.03	Black	.35 .29 .25
162886	OMN	B3F-1000	2	4	50 @ 24	.24 .24 .13	.03	White	.25 .22 .19
2076261	OMN	B3E-1100-Red*	8	4	50 @ 24	.24 .24 .19	.07	Red	.25 .05 .04
2076287	OMN	B3E-1300-Green*	8	4	50 @ 24	.24 .24 .19	.07	Green	.25 .05 .04
2235111	NKK	JB-15FP	9	4	50 @ 24	.39 .39 .17	.03	Blue	.99 .89 .75
2076252	C&K	KSC121JB	10	4	50 @ 32	.24 .24 .10	.15	Gray	.25 .12 .07
583461	C&K	KSAOV311	11	4	50 @ 50	.32 .31 .23	.04	Green	.25 .12 .07

\*Illuminated ♦ See switch caps below

## Tactile and Pushbutton Switch Caps

Part No.	Mfr.	Cross Ref. No.	Description	Dimensions	Material	For Use With	1	10	100
155409	JVP	KRS-CAP-B	Round	.50"L x .25"W x .149"SqID	Plastic	P/N 155380	\$2.9	\$1.9	\$1.5
2202132	ALC	C22004	Round	.40"D x .32"H .09"ID	Plastic	P/N 71643	.25	.12	.09
2234273	OMN	B32-1200	Square	.35"D x .35"H .21"ID	Plastic	P/N 155380	.25	.19	.15

## Magnetic Reed Switches

- NO (normally open)
- Contact form: SPST

Part No.	Cross Ref. No.	Contact Rating	Size (L" x D")	Type	1	10	100
171872	MKA14103	0.5A @ 100VDC	0.53 x 0.1	Axial	\$1.29	\$1.15	\$0.99
2227794	43718P01	0.5A @ 200VDC	2.00 x 0.375	Bolt	8.95	7.95	6.95
2208817	RI-OIC	1.0A @ 200VDC	1.81 x 0.07	Axial	1.25	1.09	.89
1951342	MKC-27103	1.0A @ 220VDC	2.24 x 0.1	Axial	1.75	1.49	1.29

## Magnetic Proximity Switches

- Current rating: 0.5A @ 20VAC/VDC; 0.08A @ 120VAC, P/N 588131: 30VAC @ .3A

Part No.	Mfr.	Mfr. Part No.	Contact Form	Actuator	Terminal Type	1	10	100
617545	GCE	35-756	SPDT NO/NC	Use magnet	Screw term., 1/4" gap, surface mount	\$4.95	\$4.49	\$3.95
588131	C&K	MPS45GW	SPST NO	Use magnet	Lead wires, 22AWG, 12"L	4.95	4.49	3.95

## Switchcraft Cord-Switch®

- Max. cable dia.: .375"
- Plastic insulation
- Button color: red
- Contact form: SPDT off-(on)
- Die-cast zinc plated housing
- 1-C switching circuit
- Copper alloy plated switch body and insert bushing

Part No.	Mfr. Part No.	1	10
297502	ED903	\$12.95	\$11.49

## Voltage Selector Switch

- Type SWZ 6-position, panel mount
- Series - parallel connection
- Contact resistance: <10mΩ
- Combination solder and quick disconnect terminals
- UL rated 10A @ 250V, and CSA rated 6.3A @ 250V
- Insulation resistance: 10MΩ @ 500VDC/1 min.

Part No.	Cross Ref. No.	1	10	100
2154943	0033.3504	\$1.49	\$1.25	\$1.09

\*ALC = Alcoswitch | ALP = ALPS Electric | C&K = C&K Switches | GCE = GC Electronics | JVP = Jameco ValuePro | NKK = NKK Switches | OMN = Omron | PAN = Panasonic

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# PC Mount Relays

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Small PC Mount Relays

Panasonic

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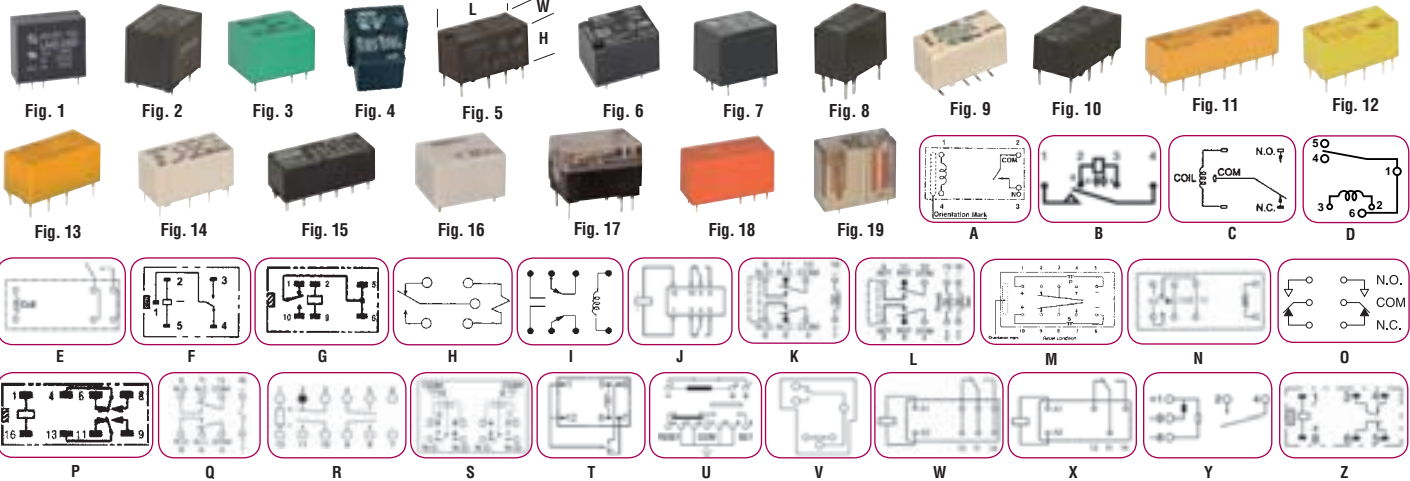
JAMECO ValuePro

AVX

Designed for the appliance and temperature control markets, these relays are also well suited for automotive load management.

- Mechanical life: 10 million operations
- Electrical life: 100,000 operations
- Dielectric strength: 1500V<sub>RMS</sub> (between contact and coil)

\* Web Code: SAV



Electromech

Part No.	Manufacturer	Product No.	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Current	Contact Voltage	Pins	Dimensions (L" x W" x H")	Pricing		
												1	10	100
2077378	Fujitsu	FBR161NED006-WB	—	2C	SPST	6VDC	100	10A	120VAC/30VDC	5	.85 x .63 x .63	\$1.75	\$1.59	\$1.29
2167550	Fujitsu	FBR562ND12-N*	—	16S	SPST	12VDC	170	60A	14VDC	10	1.0 x .78 x .64	.79	.69	.59
2198891	Panasonic	ADJ23005	—	14Y	SPST-NO	5VDC	100	16A	277VAC	7	1.14 x .51 x .63	2.49	2.25	1.95
1860070	Hamlin	HE3621A0500#	—	1B	SPST-NO	5VDC	500	1A	200VDC	4	.75 x .19 x .30	.99	.89	.79
2220058	Omron	G6D-1A-ASI-DC12	—	1F	SPST-NO	12VDC	720	5A	250VAC/30VDC	4	.68 x .26 x .50	2.95	2.49	2.25
2089694	TE Connectivity	1-1393194-5	T77S103-12	2A	SPST-NO	12VDC	720	3A	250VAC/30VDC	4	.72 x .40 x .57	.75	.65	.55
2220040	Omron	G6B-2114P-US-DC12	—	5Z	SPST-NO/NC	12VDC	480	5A	250VAC/30VDC	6	.78 x .43 x .43	2.49	2.25	1.95
2179551	Panasonic	RK1-L2-5V	—	5U	SPDT	5VDC	62.5	.5A	30VDC	10	.80 x .44 x .36	1.49	1.25	1.09
187151	Omron	G5LE-1DC5	—	2F	SPDT	5VDC	63	10A/8A	120VAC/30VDC	5	.90 x .65 x .75	1.25	1.15	1.05
843155	Panasonic	JS1-5V	T7C55D-05	6C	SPDT	5VDC	69.4	10A/5A	250VAC/100VDC	5	.87 x .63 x .63	1.09	.99	.85
760616	Panasonic	DS1E-S-DC5V	—	7N	SPDT	5VDC	125	3A	250VAC/220VDC	5	.59 x .39 x .37	2.49	2.09	1.75
187240	Omron	G5V-1-DC5	T5C-105L3H	8G	SPDT	5VDC	166.7	.5A/1A	125VAC/24VDC	6	.50 x .30 x .40	2.49	2.25	2.09
2131805	Fujitsu	FBR211AD006M	—	17T	SPDT	6VDC	80	.5A/1A	120VAC/28VDC	6	.59 x .40 x .41	.89	.79	.59
2188457	CIT Relay	WJ115F11C12VDCS6.9	—	4V	SPDT	12VDC	160	30A	240VAC/30VDC	5	1.25 x 1.06 x .80	.65	.49	.45
2155081	ValuePro	895-1C-S-12VDC	—	6E	SPDT	12VDC	225	20A	14VDC	5	.61 x .47 x .54	.75	.59	.49
2201543	TE Connectivity	RP419012	—	19X	SPDT	12VDC	270	8A	250VAC	5	1.14 x .50 x 1.0	.49	.45	.39
842734	Panasonic	DS1E-M-DC12V	—	7N	SPDT	12VDC	360	2A	250VAC/220VDC	5	.60 x .40 x .40	3.95	3.59	3.29
172937	Nais (Aromat)	JS1-12V	T72M5D121-12	6C	SPDT	12VDC	400	10A/5A	125VAC/24VDC	5	.85 x .62 x .63	1.49	1.25	1.09
174432	Rayex	LEG-12F	T7CS5D12	7H	SPDT	12VDC	400	15A	120VAC/24VDC	5	.76 x .62 x .60	1.95	1.65	1.45
1937612	TE Connectivity	T7S55D112-12	—	3D	SPDT	12VDC	652	10A/8A	240VAC/24VDC	5	.18 x .39 x .59	1.49	1.25	1.09
184461	Omron	G5V-1-DC12	—	8G	SPDT	12VDC	960	.5A/1A	125VAC/24VDC	6	.50 x .30 x .40	1.75	1.59	1.45
2201551	TE Connectivity	RT314024	—	18W	SPDT	24VDC	1440	16A	250VAC	8	1.14 x .50 x .64	.99	.89	.79
2234927	Hasco	KL11C12DC24	—	8F	SPDT	24VDC	1600	12A	120VAC/28VDC	5	.74 x .61 x .61	1.25	1.09	.99
2202749	Panasonic	DSBT2-S-DC5V	—	13K	DPDT	5VDC	69.4	2A	250VAC/220VDC	8	.81 x .42 x .41	4.95	4.49	3.95
842996	Panasonic	DS2Y-S-DC5V	—	2K	DPDT	5VDC	125	2A/3A	250VAC/220VDC	8	.78 x .39 x .37	2.49	2.25	1.95
842953	Panasonic	DS2E-S-DC5V	—	11K	DPDT	5VDC	125	2A	125VAC/30VDC	8	.79 x .39 x .39	3.25	2.95	2.65
140290	Panasonic	TQ2-L2-5V†	—	10R	DPDT	5VDC	178	1A	125VAC/110VDC	10	.55 x .35 x .20	2.25	1.95	1.75
843649	Panasonic	TXA2SA-5V	—	9I	DPDT	5VDC	178	2A	30VDC	8	.59 x .29 x .22	1.95	1.75	1.49
2202360	Fujitsu	NA-5W-K	—	5Z	DPDT	5VDC	178	2A	125VAC/30VDC	8	.59 x .29 x .38	1.49	1.25	.99
2158338	ValuePro	TC-5VDC-C14	—	5J	DPDT	5VDC	178	2A	220VDC	8	.59 x .30 x .33	1.75	1.49	1.25
2081650	NEC	EC2-5NJ	—	5I	DPDT	5VDC	178	2A	220VAC/220VDC	8	.59 x .30 x .37	1.95	1.75	1.49
2120516	Panasonic	DS2Y-SL2-DC6V†	—	12L	DPDT	6VDC	200	2A	250VAC/220VDC	10	.79 x .39 x .37	1.49	1.25	1.09
2077386	Fujitsu	AL-D9W-K	—	10M	DPDT	9VDC	45	.5A/1A	125VAC/30VDC	10	.55 x .35 x .20	2.25	1.95	1.75
2260383	Rayex	LMR2-12DL	—	1N	DPDT	12VDC	270	8A	250VAC/30VDC	8	1.2 x .48 x 1.0	3.29	2.95	2.75
187258	Omron	G5V-2-DC12	—	50	DPDT	12VDC	288	.5A/2A	125VAC/30VDC	8	.81 x .40 x .45	2.25	2.09	1.99
842902	Panasonic	DS2E-S-DC12V	—	13P	DPDT	12VDC	720	2A	250VAC/220VDC	8	.79 x .39 x .39	1.95	1.75	1.49
2228789	AVX	UA2-12NU	—	5P	DPDT	12VDC	1028	1A	250VAC/220VDC	8	.42 x .22 x .31	1.49	1.25	1.09
2202685	Matsushita	AGN200A12	—	1R	DPDT	12VDC	1030	1A	125VAC/110VDC	8	.41 x .35 x .22	1.09	.99	.89
2133499	SDS/Relais	S3-12V	—	15Q	4PST	12VDC	720	4A	250VAC/30VDC	12	1.11 x .48 x .41	1.75	1.49	1.09

\* Automotive, dual relay, separate type # SIP package † Latching



# Solid State, Enclosed & Reed Relays

**SHARP crydom EGE**

**DC/AC and DC/DC Solid State Relays**

**KYOTTO**

**RA**

**\* Web Code: DBA**



164988 (Fig. 1)



2179462 (Fig. 2)



162342 (Fig. 3)



175222 (Fig. 4)



176648 (Fig. 5)



2144737 (Fig. 6)



172591 (Fig. 7)

Part No.	Mfr.	Mfr. Part No.	Type	Contact Form	Contact Voltage	Contact Current	Control Voltage	Pins	Fig.	Agency Terminal Type	Dimensions Approval	(L" x W" x H")	Pricing		
													1	10	50
Solid State Relays DC/AC Type															
164988	Sharp	S101S02	DC/AC	SPST	125VAC	1.5A	1.2VDC@20mA	4	1	Solder lead	UL/CSA	0.9 x .16 x .63	\$2.95	\$2.59	\$2.35
164996	Sharp	S202TA1	DC/AC	SPST	200VAC	2A	1.2VDC@20mA	4	1	Solder lead	UL/CSA	0.9 x .16 x .63	1.95	1.75	1.49
162342	Excel	ESR51024-010	DC/AC	SPST	240VAC	10A	3-32VDC	4	3	Screw terminal	UL	1.7 x 1.1 x 2.3	19.35	17.35	15.95
2179462	Gordos	M-OAC5AH	DC/AC	SPST	240VAC	20A	2.75-8VDC	4	2	Solder lead	UL/CSA	1.7 x 1.0 x 0.4	3.95	3.59	3.29
162369	Excel	ESR51024-025	DC/AC	SPST	240VAC	25A	3-32VDC	4	3	Screw terminal	UL	1.7 x 1.1 x 2.3	18.95	17.95	16.95
175214	Kyotto	KB20C02A	DC/AC	SPST	280VAC	2A	3-32VDC	4	8	Solder lead	CE	1.4 x 0.3 x 1.5	7.95	6.95	5.59
2217975	Teledyne	BS24D4A	DC/AC	SPST	280VAC	4A	3-10VDC	4	4	Solder lead	UL/VDE	1.7 x 1.0 x .39	6.95	6.59	5.59
176698	Kyotto	KB20C06A	DC/AC	SPST	280VAC	6A	3-32VDC	4	7	Solder lead	CE	1.4 x 0.3 x 0.9	8.95	7.95	7.19
176719	Kyotto	KD20C40AX	DC/AC	SPST	280VAC	40A	4-32VDC	4	5	Screw terminal	UL/CE	1.7 x 0.9 x 2.3	19.95	17.95	15.95
Solid State Relays DC/DC Type															
172591	Kyotto	KF0602D	DC/DC	SPST	60VDC	2A	3-32VDC	4	7	Solder lead	CE	1.5 x 0.3 x 0.9	\$8.95	\$7.95	\$6.95
175222	Kyotto	KF0604D	DC/DC	SPST	60VDC	4A	3-32VDC	4	4	Solder lead	CE	1.5 x 0.3 x 0.9	9.95	8.95	7.95
2218126	Crydom	CMX60D10	DC/DC	SPST	60VDC	10A	3-10VDC	4	4	Solder lead	CE	1.6 x 0.3 x 0.9	9.95	8.95	7.95
2144737	Teledyne	C47F-20	DC/DC	SPST	90VDC	1A	3.8-32VDC	4	6	DIP-14	—	.75 x .25 x .17	6.95	6.25	5.59
176648	Kyotto	KG1005D	DC/DC	SPST	120VDC	5A	3-32VDC	4	5	Screw terminal	CE	2.3 x 1.7 x 0.9	17.95	16.49	14.95
176655	Kyotto	KG1010D	DC/DC	SPST	120VDC	10A	3-32VDC	4	5	Screw terminal	CE	2.3 x 1.7 x 0.9	19.95	17.95	16.49

**CLARE**

**OptoMOS® Solid State Relays**

**Applications:**

Telecom: Tip/Ring circuits, modem switching  
Instrumentation: Multiplexers, data acquisition

**\* Web Code: WDX**



Part No.	Mfr. Part No.	Package	Description	Schem.	Load Voltage <sup>1</sup> (V)	Current Handling (mA)	On-Resistance <sup>1</sup> (Ω)	Isolation Voltage (Vrms)	Input Control Current (mA)	Off-State Leakage (μA)	Switching Speed (on/off) (ms)	Pricing		
												1	10	50
1583041	LCA710	DIP-6	Single pole, 1-Form-A	A	60	1000	0.5	3750	10	1	2.5/0.25	\$4.49	\$3.95	\$3.59
1582997	LCA110	DIP-6	Single pole, 1-Form-A	B	350	120	35	3750	2	1	3/3	1.95	1.75	1.49



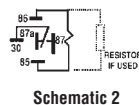
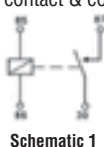
1583041

**Potter & Brumfield**

**Equivalent Plastic-Enclosed Construction Relays**

**VF Series**

- Dielectric strength: 500VDC (between contact & coil)
- Operating temp.: -35°C to +85°C
- Contact current: 40A
- Coil voltage: 12VDC
- Terminal type: quick connect
- Normally open (NO)
- Dimensions: 1.1"L x 1.1"W x 1.0"H



2231179 (Fig. 1)



171442 (Fig. 2)



171460 (Fig. 3)

**Reed Type Relay**

- Contact form: SPST-NO
- Terminal type: PCB solder
- Contact voltage: 120VAC/60VDC
- Coil voltage @ contact rating: 12V @ 11.4mA
- Dimensions: 1.0"L x 0.37"W x 0.38"H



Part No.	Cross Ref. No.	Pins	1	10	50
111448	BR-1050	4	\$1.95	\$1.75	\$1.49

**JAMECO ValuePro**

**Relay Socket with Coil Diode**

**VF Series**

- 14 AWG: 2 black & 1 blue wire; 18 AWG: 1 black & 1 red wire (7.5" length)
- Contact voltage/current: 12V/20A
- Diode coil suppression • Use w/ P/N 148583 (left)

Part No.	Product No.	1	10	50
170624	RSD03	\$2.59	\$2.35	\$2.05

**GENERAL PURPOSE RELAYS**

Part No.	Description	1	10	100
843471	1A@24VDC, 2.88KΩ, 10-pin	\$2.19	\$1.95	\$1.75
759851	15A@5VDC, 62Ω, 8-pin	3.85	3.45	3.09
1936142	2A@26.5VDC, 700Ω, 8-pin	58.29	53.65	50.45

\* PCB terminals † Comes with a removable clip

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# DIP/SIP, General Purpose Relays & Relay Sockets

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## Aromat EGE KEST HAMLIN DIP & SIP Relays

- Logic control levels
- Long life with reliable operation
- Excellent for PCB applications
- Compatible with IC sockets
- Compact design/construction
- Moisture resistant

★ Web Code: QAN



106463



1860088



2081414

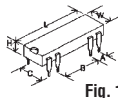


Fig. 1

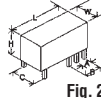
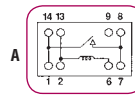
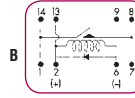


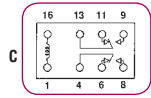
Fig. 2



A



B



C

Part No.	Manufacturer	Product No.	Fig.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Dimensions (L" x W" x H")	Leads (A" x B" x C")	Pricing		
													1	10	100
138431	Excel	2D1A05	1B	SPST-NO	5VDC	500	100VDC	0.5A	8	37162	.77 x .30 x .22	.10 x .40 x .30	\$2.95	\$2.75	\$2.49
106463	Excel	2D1A05	1A	SPST-NO	5VDC	500	100VDC	0.5A	8	37162	.78 x .25 x .20	.10 x .40 x .30	2.75	2.49	2.25
1860088	Hamlin	HE3621A0510	—	SPST-NO	5VDC	500	200VDC	0.5A	4†	—	.75 x .20 x .30	.20 x .60	1.05	.95	.85
106472	Excel	201AIZ	1A	SPST-NO	12VDC	1000	100VDC	0.5A	8	37162	.78 x .25 x .20	.10 x .40 x .30	1.95	1.75	1.59
2202731	Hamlin	HE3321C0500	1A	SPDT-CO	5VDC	125	175VDC	0.25A	5	—	.95 x .27 x .29	.10 x .20 x .01	1.49	1.25	1.09
139977	ValuePro	RSB5S	2C	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37373	.79 x .39 x .37	.20 x .40 x .30	2.99	2.65	2.45
2081414	KEST	KS2E-M-DC5	2C	DPDT	5VDC	128	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.75	2.49	2.25
99311	Aromat (NAIS)	DS2Y-S-DC12V	2C	DPDT	12VDC	720	110VAC/30VDC	0.3A/1A	8	37373	.79 x .40 x .43	.20 x .40 x .30	3.19	2.89	2.59
2081406	KEST	KS2E-M-DC24	2C	DPDT	24VDC	1440	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.49	2.25	2.09

† SIP



## General Purpose Power Relays

For complete specifications visit [www.Jameco.com](http://www.Jameco.com)

★ Web Code: GPR

2167453



611928



137358



Part No.	Mfr.	Product No.	Contact Form	Rating	Contact Rating	Coil Resis.	Contact Type	1	10	50
2167453	Panasonic	JTVIAS-PA-12	SPST	12VDC @ 83mA	30A, 277VAC	144Ω	PCB terminals	\$ .75	\$ .65	\$ .59
611928	TE Conn.	T9AP1D52-48-03	SPST-NO	48VDC @ 21mA	30A, 240VAC	2304Ω	Quick connect: .187" for coil/.250" for contacts	5.09	4.59	4.09
137358	ValuePro	953-1C12DM-R	SPDT	12VDC @ 77mA	20A, 240VAC/28VDC	155Ω	Quick connect: .110" for coil/.250" for contacts	2.95	2.75	2.49
2208147	ValuePro	H2R-72ABTAA	DPST-NO	12VDC @ 140mA	30A, 277VAC	23Ω	.250" quick connect	9.95	8.95	7.95
2208155	ValuePro	H2R-72ACTAA	DPST-NO	24VDC @ 70mA	30A, 277VAC	310Ω	.250" quick connect	5.95	5.49	4.95
552462	TE Conn.	PRD-7AG0-120	DPST-NO	120VAC @ 85mA	30A, 240VAC	290Ω	Screw: #8-32 for main; #6-32 for contacts	33.49	31.95	30.95

2208147/

2208155

552462



## General Purpose Blade and Octal Relays

- UL/CSA approved
- Industry standard termination for quick installation
- Wide range of coil voltages for industrial and commercial applications



★ Web Code: ACF



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

Part No.	Mfr.	Product No.	Fig.	Contact Form	Coil Voltage	Contact Rating	Coil Resis. (Ω)	Coil Current (mA)	Mating Socket*		Pricing		
									Standard	DIN Rail	1	10	50
2231494	ValuePro	LB2H-12DS	1	DPDT	12VDC	10A @ 24VDC; 10A @ 240VAC	160	75	175557	175557	\$6.95	\$6.25	\$5.95
139766	Rayex	MK2P-I	2	DPDT	12VDC	10A @ 28VDC; 10A @ 240VAC	120	10	141145	141145	4.95	4.49	3.95
172719	ValuePro	LB2-12DS-R	1	DPDT	12VDC	12A @ 30VDC; 12A @ 240VAC	160	75	175531	282191	6.15	5.69	5.19
282255	TE Conn.	K10P-11D15-12	5	DPDT	12VDC	15A @ 30VDC; 15A @ 120VAC	160	75	282191	282191	10.95	9.95	8.95
175565	ValuePro	LB2-24DS-R	1	DPDT	24VDC	12A @ 30VDC; 12A @ 240VAC	650	37	175531	282191	5.95	5.49	4.95
2218214	Omron	LY2-UA-006244	6	DPDT	110/120VAC	10A @ 24VDC; 10A @ 110VAC	4430	9.9/10.8	—	175531	4.49	3.95	3.59
175573	ValuePro	LB2-110ASR	3	DPDT†	110VAC	12A @ 30VDC; 12A @ 240VAC	3900	28	175531	282191	5.49	4.95	4.49
2224112	Picker	PC703-2C-M-120VAC	2	DPDT	120VAC	10A @ 28VDC; 5A @ 240VAC	2250	29.8	282132	141145	5.95	5.49	4.95
282247	TE Conn.	K10P-11A15-120	5	DPDT	120VAC	15A @ 30VDC; 15A @ 120VAC	3900	11	282191	282191	9.95	9.49	8.95
2167461	Omron	MY4-DC12	1	4PDT	12VDC	3A @ 30VDC; 3A @ 250VAC	160	75	2167470	2167470	3.59	3.25	2.95
291507	ValuePro	LB4H-12DS-R	4	4PDT	12VDC	5A @ 30VDC; 5A @ 240VAC	160	75	175557	175557	4.49	3.95	3.59
175602	ValuePro	LB4H-24DS-R	4	4PDT	24VDC	5A @ 30VDC; 5A @ 240VAC	650	37	175557	175557	5.49	4.95	4.49

\*For sockets see below

† = Silver-cadmium oxide, no lamp



## Blade and Octal Relay Sockets

★ Web Code: TEM

175531/282191: 8-pin DPDT  
2167470/175557: 14-pin 4PDT



175531



2167470



282191

Part No.	Mfr.	Product No.	Relay Series	Type	1	10	50
175531	ValuePro	PTF08A-A	K10	Combo†	\$5.09	\$4.59	\$4.09
2167470	Omron	PYF14A-E	MY	Combo†	1.75	1.49	1.25
282191	TE Conn.	27E895	K10	DIN Rail	6.95	6.25	5.59
175557	ValuePro	PYF14A-A	KHUA	DIN Rail	4.09	3.69	3.39

† Combo: DIN rail or screw terminal

175557

## Defense & Marine LEV200H5ANA Contactor Relay

- Coil resistance: 40Ω
- Coil voltage: 24VDC @ 0.6A
- 13" coil lead wires
- Contact form: SPST-NO (1 Form X)
- Contact rating: 500A
- Size: 2.29"Dia. x 3.7"Depth



Applications: Battery switching and backup, DC voltage power control, circuit protection and safety

Part No.	Mfr.	Part No.	1	10	50
2228762	5-1618388-5	.....	\$59.95	\$54.95	\$49.95

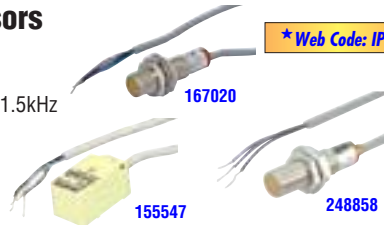
# Proximity, Hall Effect & Environmental Sensors



## Inductive Proximity Switch Sensors

### Cylindrical and Square Styles

- Operating voltage range: 10-30VDC
- Nominal operating voltage: 12VDC
- Normally open output
- Current consumption: 10mA max.
- Sensing target: inductive type – magnetic metal
- Sensing distance:  $\pm 10\%$  (tin)
- Short-circuit protected
- LED status indicator
- Switching frequency: 1.5kHz
- Fast response
- Pre-tinned pigtail
- 6' long cable



\* Web Code: IPS

Part No.	Mfr. Part No.	Output Circuit	Effec. Dist. (Iron)	Standard Target (Iron) (mm)	Dimensions (L x Dia.)	Mounting Hole (ins.)	Pricing		
							1	5	25
167020	TS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	\$21.95	\$19.95	\$17.95
155547	S18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.4"Lx1.4"Wx0.7"H	0.112	13.49	12.49	11.49
248858	TS12-02P-1	PNP	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	17.95	15.95	14.49

## Solid State Digital Position Sensors

- High output current capability -50mA absolute max.
- Oper. temp. range: -40°C to 150°C
- 3-pin SIP package
- Output type: sink
- Output volt./curr.: 40mV/20mA max.
- Supply current: 10mA max.
- Supply voltage:

1915940: 3VDC to 6.5VDC  
1915886: 3.8VDC to 30VDC

Honeywell



Part No.	Mfr. Part No.	Type	1	10	100
1915940	SS49E	Sourcing ..	\$1.99	\$1.79	\$1.55
1915886	SS441A	Unipolar .....	1.25	1.09	.99

## Hall Effect Sensors

- Supply voltage range: 4.5V-24V
- Supply current: 9mA max.
- Operating temp. up to 150°C



Honeywell

More Hall Effect Sensors on page 8

Part No.	Mfr. Part No.	BOP/BRP* @ 25°C	1	10
1871879	OH180U	180/140 gauss ...	\$2.49	\$2.25
1915835	SS41	40/-40 gauss .....	.99	.89
2201906	HAL115UA-C	12/-12 gauss .....	.59	.55

\*BOP = Magnetic Operating Point; BRP = Magnetic Release Point

## Gear Tooth Speed Sensor

### Commercial Grade Hall Effect

- Operating voltage range: 4.5-24VDC
- Output type: sink
- Output current: 25mA max.
- Supply current: 6mA max.
- Output voltage: 400mV max.
- Thread: 15/32" - 32
- Reverse battery protection from 24VDC
- Operating temperature range: -40°C to 125°C
- Barrel length: 1.0"
- Wire: 20 AWG x 1m



Part No.	Mfr. Part No.	1	5	25
512401	GS100701	\$29.95	\$26.95	\$24.95

## PASSIVE INFRARED SENSORS

PIR sensors are ideal for motion sensing applications and may be used for distance detection in some cases.



\*PIR Sensors — Enter Web Code HJK



## Hall Effect Magnetic Proximity Sensor

- With Snap-Fit Mount
- Operating voltage range: 4.75-24VDC
- No mechanical contacts to wear out
- South pole sensitive or bi-polar latch
- Output saturation voltage max.: 400mV
- Output: 3-wire sink
- Immune to dust, dirt and moisture
- Digital output compatible with all logic families
- Operating temp. range: -40°C to 85°C
- Solid state reliability
- Reverse polarity protection to -24V



\* Web Code: CCC

Part No.	Mfr. Part No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Wire	Pricing		
							1	5	25
513244	MP101301	4	25	300	60	24AWG x 1m	\$5.95	\$5.49	\$4.95



## Magnetic Proximity Sensor Cylindrical Plastic Housing

- Omnipolar, magnetically activated switch
- Hermetically sealed
- Contact resistance: 0.2Ω max.
- Resistant to dirt and moisture
- Operating temp. range: -40°C to 105°C
- Can be approached by any magnet from any angle with either pole
- Zero power consumption
- Breakdown voltage: 200VDC min.



\* Web Code: CCC

Part No.	Mfr. Part No.	Contact Form	Power (W)	Switching Volt. Max. (VDC)	Switching Curr. Max. (A)	Op. Time Typical (ms)	Pricing		
							1	10	50
482417	AS201901*	SPST NO	10	175	0.5	0.6	\$3.95	\$3.59	\$3.29
513359	MP201901	SPST NO	10	175	0.5	0.6	3.95	3.59	3.29

\* Actuator to be used with 513359



## High Performance Sonar Range Finders

MaxBotix is a leader in ultrasonic range finder products for standard, industrial and outdoor applications. These products can detect objects from as close as 6" all the way to 35' depending on the model.

\* Web Code: MXB



Part No.	Mfr. Part No.	Fig.	Max. Beam Width†	Detection Range (ft.)	Data Output*	Pricing	
						1	5
2157335	MB1040	1	2 feet	1-21.16	PW, AV, SD	\$25.95	\$23.49
2157351	MB1240	2	3 feet	1-25.1	PW, AV, SD	36.95	33.95
2157327	MB1010	1	5 feet	1-21.16	PW, AV, SD	24.95	22.95

\*PW = pulse-width; AV = analog volt.; SD = serial digital †Beam characteristics are approximate

## AIRFLOW AND PRESSURE SENSORS

Honeywell

1840280



Part No.	Mfr. Part No.	Type	Max. PSI	Voltage	Pins	1	10
1840271	AWM3100V	Airflow, 200 sccm	—	8-15	3	\$142.25	\$133.65
1840280	AWM3300V	Airflow, 1000 sccm	—	8-15	3	115.59	108.59
1840255	AWM2100VH	Airflow, 200 sccm	25	8-15	6	144.29	135.55
1914066	SDX05D4	Pressure	20	0-20	3	54.45	50.15
1914040	SDX01D4	Pressure	20	0-20	6	55.05	50.69
1913741	SCX01DNC	Pressure	20	0-20	6	83.59	78.55
1817080	26PCBFA6G	Pressure	20	2.5-16	4	44.89	41.35
1914138	SDX15D4	Pressure	30	0-20	6	54.45	50.15
1814840	142PC15A	Pressure	45	7-16	3	352.15	330.79
1914091	SDX100D4	Pressure	150	0-20	6	55.05	50.69

## PARALLAX SENSORS

2150230

2123565

Part No.	Mfr. P/N	Description	Price
2150230	29124	Altimeter Module which is a high resolution (20 cm) altimeter sensor with SPI and I2C bus interface	\$29.95
2123565	605-00011	Gas sensor for gas detection devices detecting alcohol	6.29
2082871	27932	Gas sensor module for LPG determines when a preset gas level is reached	23.69
2150221	27911	Gyroscope Module which is a low power 3-axis angular rate sensor featuring temperature data as an added bonus	32.29
2146281	28044	Laser range finder module measure distance to a targeted object	118.69
2110836	29131	Liquid level eTape 12" measurement sensor for liquids & fine powders	42.95
2082901	27920	Relative humidity sensor for high volume, cost sensitive applications	8.95
2161481	28036	Tilt sensor, 4-directional which communicates with all MCUs	11.39

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)



# Sensors, Microphone Cartridges & Keypads

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY



## Digital/Analog Distance Sensors PARALLAX

These sensors are small in size and can be placed just about anywhere on your project.

- 2136462:** 3-pin header connection (included)
- 2150256:** Connects with 3-pin JST connector (P/N 2143881, not included)



Part No.	Mfr.	Mfr. P/N	Digital/Analog	Detection Range	Res. Time	1	10
2150256	Parallax	28995	Analog	3.9" to 31.5"	38.0 ms	\$9.95	\$8.95
2136454	Sharp	1137	Analog	7.8" to 59"	38.0 ms	13.95	12.49
2143881	Pololu	117	3-pin female JST cable w/ stripped leads			1.35	1.19
2244404	ValuePro	13685-01	3-pin female JST cable w/ 0.1 conn terminals			1.49	1.35
2143419	Pololu	1799	3-pin female JST cable w/ 0.1" crimp terminals			1.25	1.09

\* Web Code: PDS



## Arduino Compatible Sensors

These plug and play sensors are ready for immediate installation and use.

- 2213270:** • Operation voltage: 5V, 7-12V reg. at MCU for heating
- 2190741:** • 2.0VDC to 3.6VDC
- SPI and I<sup>2</sup>C interface



Part No.	Description	1	5
2213270	CO <sub>2</sub> gas sensor, single digital output (MG-811)	\$55.95	\$53.95
2190741	3-axis accelerometer ADXL345	8.95	7.95

For Arduino Boards and Sensors, see pages 139-140



## Ultrasonic Sensor Sets

\* Web Code: CAU

### Motion or Distance Sensing, Transmitter/Receiver Set

- Frequency: 40kHz ±1.0kHz • Aluminum case
- 139492:** • Capacitance: 2000pF ±20%
- Transmitter: bandwidth 5.0kHz @ 100dB, sound pressure level 112dB @ 40 ±1.0kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB @ 40 ±1.0kHz (R=3.9kΩ)
- 136654:** • Capacitance: 2000pF ±30%
- Transmitter: bandwidth 4.0kHz @ 112dB, sound pressure level 119dB @ 40±1.0kHz
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB @ 40±1.0kHz (R=3.9kΩ)

Part No.	Manufacturer	Product No.	Case Size	Lead Length/Spacing	1	10	100
139492	ValuePro	40TR12B	0.30"H x 0.43"Dia.	0.28"	\$6.95	\$6.25	\$5.59
136654	ValuePro	40TR16F	0.47"H x 0.62"Dia.	0.39"	6.95	6.25	5.59

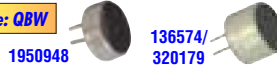


## Omni-Directional Electret Condenser Microphone Cartridges

**Applications:** Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors

- Max current: 0.5mA • Impedance: >2.2kΩ • Terminals: PC pin leads

\* Web Code: QBW



Part No.	Cross Ref. No.	Sensitivity	Frequency (Hz)	Max. Op. Volt.	Stand Op. Volt.	Sensitivity Reduction	S/N Ratio	Size (H x Dia.)	Pricing
1950948	AMF-097A40-NB1-LF	-60 ±3dB	50-16,000	10VDC	3.0VDC	-3dB @ 3V	>58dB	.27" x .39"	\$ .65 \$ .55 \$ .49
2202095	F9767AP*	-38 ±3dB	20-16,000	10VDC	3.0VDC	-3dB @ 1.5V	>58dB	.26" x .38"	.99 .89 .79
1288633	AOM-6545P-R*	-45 ±2dB	20-20,000	10VDC	4.5VDC	-3dB @ 3V	>60dB	.26" x .37"	.65 .59 .49
2126141	EC928P-602	-40 ±2dB	20-12,000	10VDC	4.5VDC	-3dB @ 1.5V	>75dB	.26" x .38"	.75 .65 .55
136574	WM-60PC	-54 ±2dB	20-12,000	12VDC	4.5VDC	-3dB @ 3V	>40dB	.30" x .38"	.99 .89 .75
320179	EM-99	-64 ±2dB	20-12,000	12VDC	4.5VDC	-3dB @ 3V	>40dB	.27" x .39"	.99 .75 .65

\* Manufacturer: Arndt

## 1x4 & 12-Button 4x3 Numeric Keypads

- Contact resistance: 200Ω to 800Ω
- Recommended connector: Receptacle housing: P/Ns 163686 (5 pos), 2259753 (7 pos), 103203 (8 pos); Crimp pin: P/N 100766
- Life test: 2237802/2230467: 500,000 to 1 million cycles per key
- 20-pin break away male header: P/N 2229036
- Compatible with MOS, TTL, and DTL (10Ω max.)



Part No.	Manufacturer	Mfr. Part No.	Description	Size (L" x W" x H")	1	10	100
2217609	Seed Studio	COM62229M	Membrane, 7-pin female conn.	2.4 x 3.0 x 0.05	\$5.95	\$5.35	\$4.75
2237802	ValuePro	KPD-34-521-R-BLACK	8-pin header	3.0 x 2.2 x 0.6	4.95	4.49	3.95
2230467	ACT Components	041002-ASSY-000	7-pin header	2.7 x 2.0 x 0.3	6.95	6.25	5.59
2246338	Adafruit	419	Membrane, 7-pin header	2.75 x 3.0 x 0.035	4.95	4.49	3.95
2246354	Adafruit	1332	1x4 membrane, 5-pin header	2.72 x 0.79 x 0.05	4.95	4.49	3.95

## 16-Button 4x4 & 2x8 Numeric Keypads



- Contact resistance: 200Ω to 800Ω
- Life test: 2131055/169245: 1 to 3 million cycles per key
- Recommended connector: Receptacle housing: P/Ns 103203 (8 pos) and 2259761 (9 pos); Crimp pin: P/N 100766
- 8-pin male header: P/N 153702 (straight)
- Compatible with MOS, TTL, and DTL (10Ω max.)



Part No.	Manufacturer	Mfr. Part No.	Description	Size (L" x W" x H")	1	10	100
2131055	ValuePro	AK-1604-N-BWB	8-pin solder pad	2.5 x 2.6 x 0.4	\$6.95	\$6.25	\$5.59
169245	ValuePro	AK-1607-N-BBW-R	8-pin solder pad	3.0 x 2.8 x 0.6	9.25	8.25	7.49
2161473	Parallax	27899	Membrane, 8-pin header	2.7 x 3.0 x 0.06	7.95	7.49	6.95
152063	ACT Components	07-30008-000	9-pin header	2.6 x 2.9 x 0.4	16.95	14.49	12.95
196171	ACT Components	07-30009-000	2x8, 9-pin header	4.6 x 1.7 x 0.4	16.95	15.49	13.95

## Flex Sensor



This flex sensor is perfect for applications that require the measurement of repeated bending.

- Maximum resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

Part No.	Nominal Res.	Length	1	10
150551	10kΩ	4.5"	\$12.95	\$11.49



## Force-Sensing Resistors

- Polymer thick film (PTF) optimized for human touch control of electronic devices
- >1MΩ, no force, 100kΩ to >100Ω under pressure
- 0.72" dia. circular pad, 0.5" Dia. sense area
- Can sense applied force from 1 oz. to 22 lbs.
- 1.3" flexible male leads, 0.1" spacing

Part No.	Mfr. Part No.	Size	1	10
2128260	1696	0.72"Dia./50"Circle	\$6.95	\$6.25
2136471	1645	1.72"L x 1.5"W	10.95	9.95

\* Keypads Online — Enter Web Code XBA

# Buzzers, Transducers & Sirens

JAMECO ValuePro

VELLEMAN

## Piezo Buzzers (Annunciators)

NEW  
MARKED IN PINK

\*Web Code: JPB

Part No.	Manufacturer	Product No.	Fig.	Tone	Oper. Volt. (V/mA)	Volt. Range	Sound (dB)	Freq. (Hz)	Dimensions (H x Dia.)	Pricing		
										1	10	100
336989	ValuePro	11S3120LF-TA	1	Single	1-16/30	6-16	100	2900	1.35" x 1.71"	\$3.25	\$2.95	\$2.75
335557	ValuePro	MSR320	2	Single	3-20/3-16	3-20	90	3400	.39" x .91"	2.19	1.89	1.69
2234804	ValuePro	20S1015LFLA	3	Single	3/20	1-3	70	400	.91"L x .67"W x .61"H	1.75	1.59	1.45
1956696	Velleman	SV4/5-S	4	Single	5/25	3-6	87	3200	.30" x .47"	2.25	2.09	1.85
2173861	ValuePro	20S1060LF-LA	3	Single	6/25	4-8	75	400	.91"L x .67"W x .61"H	1.75	1.49	1.25
138713	ValuePro	32S4120-PN	5	Single	12/7	3-16	80	4000	.30" x .54"	1.99	1.79	1.55
2120452	ValuePro	DB-E238	5	Single	12/8	3-20	85	2900	.63" x .93"	1.75	1.59	1.39
2234337	ValuePro	SL12ADF3120LF	6	Single	12/20	6-28	90	2900	1.3" x 1.7"	4.19	3.95	3.59
2261298	Velleman	SVM12M	3	Single	12/25	8-15	85	500	.92"L x .67"W x .58"H	2.49	2.25	1.95
32602	ValuePro	11S3240-R	6	Single	24/15	1-27	95	2900	1.4" x 1.7"	2.75	2.49	2.25
76021	ValuePro	7S3240-LA	7	Single	24/20	1.5-28	95	3200	1.06" x 1.1"	3.95	3.59	3.39
2192499	Multicorp	MBUZ-24VDC	8	Single	24/30	15-27	75	400	.90"L x .66"W x .57"H	1.09	.99	.89
249498	ValuePro	1103120-LF-TA	6	Dual†	12/25	4-16	95	2900	1.35" x 1.72"	3.59	3.29	2.95
123538	ValuePro	11D3240	6	Dual†	24/20	4-28	80	2900	1.4" x 1.7"	3.55	3.19	2.85
2117430	ValuePro	7P3120LF-LA	7	Pulse	12/10	3-15	90	3200	.98" x 1.1"	2.75	2.39	2.09
673900	ValuePro	SEP-1172	9	†	12/7	3-28	81	3300	.63" x 1.24"	.35	.29	.25
2236092	Kobitone	254-353	10	Continuous	6/6	3-30	90	2800	.63" x 1.63"	1.95	1.75	1.49
2233297	Mallory	SCM616N-W/O	6	Continuous	6/16/6-22	6-16	90	2900	1.06" x 1.7"	1.19	.99	.89
2172906	Mallory	SCM616N-1	6	Continuous	6/16/6-22	6-16	90	2900	1.06" x 1.7"	2.25	1.95	1.75
2236105	Kobitone	254-PB517	2	Continuous	9/7	3-15	90	3400	.46" x .96"	1.95	1.75	1.49
2202925	Murata	PKM33EP-1001	11	Continuous	12/7	3-30	70	4000	.29" x 1.25"	.99	.89	.79
2231849	ValuePro	LD-72	12	Continuous	12/110	6-15	108	—	1.87"L x 1.5"W x .90"H	5.95	5.49	4.95

† Requires driver circuit

# Continuous or fast pulse

\* PCB terminals

✓ PCB terminals without mfr. nut



Electromech

VELLEMAN

KOBITONE

## Piezo Transducers (Speakers)

\*Web Code: JPT

Part No.	Manufacturer	Product No.	Fig.	Rated Voltage	Max. Current	Res Frequency	Sound (dB)	Dimensions (H" x Dia.)	Pricing		
									1	10	100
1956784	Velleman	TV4	1	1.5Vp-p	1.5mA	4kHz	75	0.01 x 1.97	\$1.29	\$1.09	\$0.99
1956776	Velleman	TV1	2	1.5Vp-p	1.5mA	4kHz	85	0.24 x 1.18	1.75	1.59	1.45
2207081	ValuePro	AZ-3040E-W-LF	2	3Vp-p	5mA	4kHz	85	0.22 x 1.18	1.09	.99	.89
2098523	Kobitone	PB140-ROX	3	5Vp-p	5mA	4kHz	80	0.27 x 0.54	1.95	1.75	1.59
2210968	Panasonic	EAF-12RT04CC	3	5Vp-p	2mA	2.04kHz	85	0.33 x 0.47	.69	.59	.49
336314	ValuePro	KWT2340F12L-2ER	2	12Vp-p	3mA	4kHz	80	0.18 x 0.94	1.55	1.29	1.15
2077280	Panasonic	24C411	3	15Vp-p	2mA	4kHz	85	0.24 x 0.94	.49	.39	.29
2151216	Projects Unlimited	EAT-17	4	20Vp-p	1mA	3.8kHz	80	0.27 x 0.55	.45	.35	.25



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## Magnetic Transducers (Buzzers)

• Applied voltage: 1/2 duty, square wave

\*Web Code: JMT

Part No.	Manufacturer	Product No.	Oper. Volt. (V/mA)	Volt. Range	Frequency (Hz)	Impedance (Ω)	Sound (dB)	Dimensions (H x Dia.)	Pricing		
									1	10	100
2231857	Arndt	SBT-111B	1.5/10	1-2	2048	140	70	.21" x .47"	\$0.29	\$0.22	\$0.17
2159701	Arndt	CB-12HN	2.4/100	1.1-3	2700	10	85	.20" x .47"	.25	.15	.12
138740	ValuePro	DBX05-PN	5/40	3-8	2400	80	85	.35" x .46"	1.09	.99	.89
2129748	Kobitone	256-MB2161	12/40	6-18	2048	115	85	.55" x .63"	.25	.15	.12



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## Mechanical/Electromechanical Buzzers

\*Web Code: MEB

Part No.	Manufacturer	Cross Ref. No.	Fig.	Oper. Volt. (V/mA)	Voltage Range	Frequency (Hz)	Sound (dB)	Dimensions	Pricing		
									1	10	100
76065	ValuePro	TDB05-PN	1	5/30	4-7	2300	85	.35"H x .46"Dia.	\$1.75	\$1.55	\$1.35
24872	ValuePro	63S109LA	2	9/25	6-12	400	85	1.3"L x 0.7"W x 0.6"H	1.79	1.55	1.29
140695	ValuePro	63S1120-LA	2	12/25	9-15	400	75	1.3"L x 0.7"W x 0.6"H	1.79	1.55	1.29
2192472	Arndt	MBUZ-120VAC	3	120/180	0-120	50-60	75	1.3"L x 0.9"W x 0.7"H	.65	.59	.49



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## Piezo Sirens – High Decibel Output

\*Web Code: PSS

Part No.	Manufacturer	Product No.	Oper. Volt. (V/mA)	Voltage Range	Frequency (Hz)	Sound (dB)	Dimensions	Pricing		
								1	10	100
2203063	Intervox	BPS8432L-12-C	12/85	6-15	2500-2800	105	3.3"L x 2.2"W x 1.3"H	\$4.95	\$4.49	\$3.95
207993	ValuePro	SL15R3120LA	12/250	6-16	3500	105	2.3"L x 1.8"W x 1.6"H	4.75	4.25	3.75
2131223	Velleman	SV/PS1	12/200	6-15	3500	107	2.2"L x 1.7"W x 1.7"H	4.29	3.89	3.49



\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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JAMECO ValuePro

## Square & Round Flat Element Speakers

• Excellent for alarms or other voice uses

• Stainless steel diaphragm

\* Web Code: XAE

Part No.	Cross Ref.	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Element Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
2227508	AZ30R*	1.2 x 0.2	0.4	0.8	8	70	1300 - 8000	1.2 x 0.1	\$1.75	\$1.49	\$1.25
2227516	AZ40R**	1.6 x 0.2	0.4	0.8	8	70	600 - 6000	1.6 x 0.1	1.49	1.25	1.09
76030	AZ40S	1.6 x 0.2	0.4	0.8	8	70	600 - 6000	1.6 x 0.1	1.49	1.35	1.19
673766	AZ50S	1.9 x 0.2	0.4	0.8	4	70	500 - 6000	1.9 x 0.1	1.49	1.25	1.09



76030 Side

76030 Back

\* Round with 2" wire leads

\*\* Round

JAMECO ValuePro

## Alnico Round, Square and Rectangular Speakers

\* Web Code: EAL

Part No.	Product No.	Fig.	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom (W)	Max (W)					1	10	100
88411	A0200	1	2.0 x 0.8	0.2	0.4	8	87	430 - 4500	0.5 x 0.4	\$2.25	\$1.99	\$1.75
2146388	TR057A-R	1	2.25 x 0.77	0.25	0.5	8	84	300 - 14000	0.5 x 0.4	2.75	2.49	2.25
307820	UF1082	4	1.73 x 0.275	0.5	1.0	8	80	200 - 6000	0.8 x 0.1	.55	.49	.45
2115442	K7048202	5	1.6Lx2.8Wx0.9H	3.0	3.0	8	82	310 - 12000	0.87 x 0.29	2.09	1.89	1.65
2258806	15294900	7	7.0 x 5.0	10	10	8	82	100 - 10000	2.5 x 1.1	3.25	2.95	2.75
1950972	I-826-219#	3	8.2Lx2.2Wx2.0H	1.0	4.5	8	85	30 - 20000	1.5 x 2.8	2.25	1.75	1.49
2258793	S0307F390	6	2.9 x 1.2 x 1.0	1.0	5.0	8	80	100 - 1000	1.2 x 0.8	1.95	1.75	1.49
135812	A1527C02	2	1.6Lx2.8Wx1.2H	2.0	5.0	8	82	450 - 20000	0.5 x 0.5	3.25	2.95	2.75
2224032	49-1334-02	6	6.3Lx3.1Wx2.2H	7.0	7.0	8	85	100 - 18000	2.1 x 1.0	3.25	2.95	2.75
2217828	HKS-16-0.5	1	3.0 x 0.9	0.5	1.0	16	89	500 - 5000	1.2 x 0.4	.75	.65	.55
2217836	1.009.841-C†	1	3.0 x 1.2	3.0	4.0	16	89	400 - 10000	1.8 x 0.5	.99	.89	.75
2230782	A0102	1	1.5 x 0.66	0.1	0.2	45	78	100 - 9500	0.7 x 0.42	1.25	1.09	.99
2236674	FEB300	8	3.0 x 3.0 x 1.0	0.5	1.0	45	90	260 - 5000	1.7 x 0.5	1.49	1.35	1.19

# Sony LCD plasma replacement speaker (actual size: 6"H x 2.15"W x 1.94"D) † With lead wires

- For computer case use
- Paper diaphragm
- Large magnet
- Wide frequency response
- Pre-tinned solder lugs



Fig. 1

Fig. 2

Fig. 3



Fig. 4

Fig. 5



Fig. 6

Fig. 7

Fig. 8

JAMECO ValuePro

## Micro Round and Rectangular Speakers

\* Web Code: TBX

Part No.	Product No.	Dimensions (Dia. " x D")	Input (W)		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
			Nom.	Max.					1	10	100
2099606	SP801W	1.05 x 0.35	0.1	0.2	8	78	320 - 7500	0.67 x 0.17	\$1.55	\$1.29	\$1.15
2158215	MR-01W	2.25 x 0.43	0.1	0.2	8	84	460 - 7000	0.75 x 0.18	.55	.45	.35
2095242	35CS088-M75NA	1.4Lx1.3Wx0.2H	0.2	0.3	8	80	550 - 6700	0.44 x 0.10	.75	.55	.49
2272639	SPU3520	1.4Lx0.8Wx0.3D	0.1	1.0	8	80	500 - 2000	0.55 x 0.10	1.95	1.75	1.59
2228851	GC361MA	1.4 x 0.14	0.2	0.5	8	84	150 - 5000	0.64 x 0.65	1.49	1.25	1.09
2234134	40R	1.5 x 0.2	1.0	1.5	8	93	100 - 15000	0.63 x 0.50	2.49	2.25	1.95



2099606

2158215

2095242

2272639

2228851

2234134

JAMECO ValuePro

## Round Ferrite Speakers

\* Web Code: TAT

Part No.	Mfr.	Product No.	Fig.	Dimensions (Dia. " x D")	Input (W)		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
					Nom.	Max.					1	10	100
2224041	Arndt	110153-01	1	2.4 x 1.4	10	10	4	85	1000 - 12000	2.2 x 0.5	\$2.49	\$2.25	\$1.95
2205561	Panasonic	45P30S	2	1.8 x 0.7	0.1	0.1	8	93	530 - 3000	1.3 x 0.4	.75	.65	.55
2239146	MG Electro.	MSC299SWC	3	2.0 x 0.7	0.2	0.4	8	83	500 - 8000	1.3 x 0.4	1.99	1.79	1.55
320362	ValuePro	TR-057F-R	4	2.0 x 0.7	0.2	0.5	8	86	900 - 9000	1.3 x 0.25	2.55	2.29	1.99
2208825	Arndt	EAS-6P60SD	5	2.2 x 1.3	0.4	0.8	8	85	100 - 5000	0.7 x 0.6	1.25	1.09	.99
2190653	ValuePro	GF0502BX	4	2.0 x 1.0	2.0	5.0	8	88	100 - 17000	1.5 x 0.5	2.75	2.45	2.25
2205202	Arndt	HKS-16-5	4	3.0 x 0.7	0.5	2.0	16	92	200 - 3000	0.8 x 0.5	.79	.69	.59
2188916	Sharp	80P-G3YB	2	3.0 x 0.7	0.5	2.0	32	92	200 - 3000	0.8 x 0.5	.89	.79	.69

- Pre-tinned speaker lugs
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm
- Large magnet

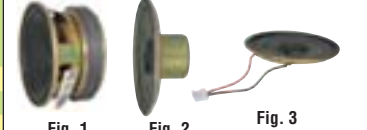


Fig. 1

Fig. 2

Fig. 3



Fig. 4

Fig. 5

Fig. 6



Fig. 7

Fig. 8

Fig. 9



Fig. 10

Fig. 11

JAMECO ValuePro

## Square Ferrite Speakers

\* Web Code: EDT

Part No.	Mfr.	Product No.	Fig.	Dimensions (Dia. " x D")	Input (W)		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
					Nom.	Max.					1	10	100
99996	ValuePro	FEB204	6	2.6 x 0.9	3.0	4.0	4	95	300 - 14000	1.8 x 0.5	\$3.59	\$2.99	\$2.49
2234759	ValuePro	TQ-023CP-8	7	0.9 x 0.9	2.0	4.0	8	76	300 - 20000	0.5 x 0.1	4.49	3.95	3.49
2229618	Arndt	SP99023A	6	2.1 x 1.3	10	20	4	90	400 - 8000	1.8 x 0.5	2.09	1.89	1.65
135694	ValuePro	FEB200	6	2.0 x 0.7	0.2	0.3	8	82	500 - 6000	1.3 x 0.5	2.29	1.99	1.79
2231161	Shogyo	GF0506X	6	2.0 x 2.0	0.2	0.5	8	82	0 - 7200	1.8 x 0.5	2.59	2.25	1.95
2179657	Arndt	1422	8	2.6 x 0.7	0.4	0.8	8	85	500 - 8000	1.2 x 0.5	1.95	1.75	1.49
2167285	Arndt	1-529-483-11	9	3.0 x 2.3	4.0	5.0	8	85.7	180 - 10000	2.5 x 1.0	3.59	3.25	2.75
1954818	ValuePro	TQ-100F-R	6	4.0 x 1.4	5.0	5.0	8	97	800 - 10000	1.8 x 0.5	3.59	3.25	2.75
2265895	Arndt	BLS86-2-08H	6	3.4 x 1.2	6.0	12.0	8	87	800 - 10000	1.2 x 1.2	3.95	3.59	3.25
31959	ValuePro	FEB216	6	2.6 x 0.8	0.2	0.4	16	85	330 - 8000	1.3 x 0.5	2.75	2.49	2.25
2179681	Arndt	27JRG-1624	10	4.0 x 1.4	2.0	2.0	16	85	800 - 11000	1.8 x 0.5	1.09	.89	.79



## 30mm PCB Mountable Speakers

- Ideal for PC board mounting
- Power (nominal/max.): 0.15W/0.2W

- Mylar diaphragm
- Solder leads

135722



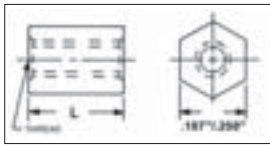
Part No.	Size (H x Dia.)	Impedance	Pin Spacing	Freq. Range	SPL (dB)	1	10	100
2095234	0.57" x 1.24	8Ω	0.69"	700-4kHz	82	\$.99	\$.89	\$.69
135722	0.50" x 1.17"	8Ω	0.59"	700-5kHz	82	1.25	1.09	.99
2099817	0.47" x 1.16"	100Ω	0.58"	1.1kHz ±20%	95	.69	.59	.49

## DIODE, TRANSISTOR & CRYSTAL GRAB BAGS

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17961	GB107	200 assorted diodes (zener, switching, silicon rectifiers)	0.1	\$9.95	\$8.95
18171	GB127	100 asst. transistors/ thyristors (NPN, PNP)	0.1	9.95	7.95
114446	GB150	100 assorted crystals/oscillators	0.2	7.95	6.95

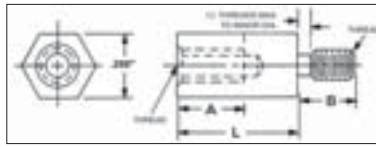


## .187"/.250" Hex Aluminum, Brass &amp; Steel Threaded Standoffs



Female (Fig. 1)

- Finish:
- 1 Aluminum
- 2 Brass bright tin plate
- 3 Chrome

NEW  
MARKED IN PINK

Male/Female (Fig. 2)

## Hex Female Standoffs

\* Web Code: TBQ

## Hex Male/Female Standoffs

## .187" Hex Female 2-56 Thread (Fig. 1)

Part No.	*Mfr.	Product No.	Length of L	Pricing		
				1	10	100
2235401	FAS	2051-256A <sup>1</sup>	.125"	\$.25	\$.22	\$.19
2235410	FAS	2053-256A <sup>1</sup>	.250"	.25	.22	.19
2235428	FAS	2055-256A <sup>1</sup>	.375"	.29	.27	.24
2235436	FAS	2057-256A <sup>1</sup>	.500"	.29	.27	.25
2235444	FAS	2059-256A <sup>1</sup>	.625"	.39	.37	.35
2235452	RAF	2061-256A <sup>1</sup>	.750"	.41	.39	.37

## .187" Hex Female 4-40 Thread (Fig. 1)

Part No.	*Mfr.	Product No.	Length of L	Pricing		
				1	10	100
175636	JVP	2052-440S0 <sup>3</sup>	.187"	\$.49	\$.45	\$.39
133613	RAF	2053-440A <sup>1</sup>	.250"	.25	.19	.12
102796	JVP	14-552R <sup>3</sup>	.250"	.29	.25	.19
393693	FAS	2055-440A <sup>1</sup>	.375"	.25	.19	.12
133640	RAF	2057-440A <sup>1</sup>	.500"	.25	.19	.12
133648	RAF	2059-440A <sup>1</sup>	.625"	.27	.25	.23
133656	RAF	2061-440A <sup>1</sup>	.750"	.29	.27	.25
139185	FAS	2065-440A <sup>1</sup>	1.00"	.59	.55	.49

## .250" Hex Female 4-40 Thread (Fig. 1)

Part No.	*Mfr.	Mfr. Part No.	Length of L	Pricing		
				1	10	100
139193	RAF	2100-440A <sup>1</sup>	.250"	\$.25	\$.17	\$.14
77501	RAF	2102-440A <sup>1</sup>	.375"	.25	.19	.16
108371	RAF	2104-440A <sup>1</sup>	.500"	.25	.22	.19
77519	FAS	2106-440A <sup>1</sup>	.625"	.29	.27	.25
133605	FAS	2108-440A <sup>1</sup>	.750"	.25	.22	.19
139205	RAF	2112-440A <sup>1</sup>	1.00"	.39	.35	.31

## .250" Hex Female 6-32 Thread (Fig. 1)

Part No.	*Mfr.	Mfr. Part No.	Length of L	Pricing		
				1	10	100
77534	FAS	2100-632A <sup>1</sup>	.250"	\$.25	\$.17	\$.14
133591	RAF	2102-632A <sup>1</sup>	.375"	.25	.17	.14
77543	RAF	2104-632A <sup>1</sup>	.500"	.25	.19	.16
77552	RAF	2106-632A <sup>1</sup>	.625"	.25	.17	.14
77570	RAF	2108-632A <sup>1</sup>	.750"	.25	.22	.19
77578	RAF	2112-632A <sup>1</sup>	1.00"	.39	.37	.35
143407	FAS	2120-632A <sup>1</sup>	1.50"	.79	.69	.59
143441	RAF	2124-632A <sup>1</sup>	1.75"	.99	.89	.79

## .250" Hex Female 8-32 Thread (Fig. 1)

Part No.	*Mfr.	Mfr. Part No.	Length of L	Pricing		
				1	10	100
2235461	FAS	2100-832A <sup>1</sup>	.250"	\$.33	\$.31	\$.29
2235479	FAS	2102-832A <sup>1</sup>	.375"	.55	.45	.35
2235487	FAS	2104-832A <sup>1</sup>	.500"	.39	.37	.35
2235495	FAS	2106-832A <sup>1</sup>	.625"	.45	.42	.39
2235508	FAS	2108-832A <sup>1</sup>	.750"	.45	.42	.39
2235516	FAS	2112-832A <sup>1</sup>	1.00"	.59	.55	.49

You can special order any Hex Standoff sizes 1/4" - 2" in aluminum, stainless steel, steel zinc, clear or brass plated. 500-piece minimum requirement. Contact us at [Hardware@Jameco.com](mailto:Hardware@Jameco.com).

\* FAS = Fascomp Electronic Hardware | JVP = Jameco ValuePro | MOL = Molex | RAF = RAF Electronic Hardware

## .187" Hex M/F 2-56 Thread (Fig. 2)

A: .187"; B: .156"

Part No.	*Mfr.	Mfr. Part No.	Length of L	Pricing		
				1	10	100
2235524	FAS	4501-256A <sup>1</sup>	.250"	\$.39	\$.37	\$.35
2235532	FAS	4503-256A <sup>1</sup>	.375"	.39	.37	.35
2235541	FAS	4505-256A <sup>1</sup>	.500"	.45	.42	.39
2235559	FAS	4507-256A <sup>1</sup>	.625"	.69	.65	.55
2235567	FAS	4509-256A <sup>2</sup>	.750"	.69	.65	.55
2235575	FAS	4513-256A <sup>1</sup>	1.00"	.75	.69	.65

A: †.140" thread depth

## .187" Hex M/F 4-40 Thread (Fig. 2)

A: .250"; B: .187"

Part No.	*Mfr.	Mfr. Part No.	Length of L	Pricing		
				1	10	100
2228949	MOL	1207200 <sup>3#</sup>	.200"	\$.29	\$.25	\$.19
393458	RAF	4501-440A <sup>1</sup>	.250"	.39	.37	.35
393466	RAF	4503-440A <sup>1</sup>	.375"	.39	.37	.35
393474	RAF	4505-440A <sup>1</sup>	.500"	.45	.39	.35
2235647	FAS	4507-440A <sup>1</sup>	.625"	.49	.39	.35
2125202	RAF	4508-440BR7 <sup>2</sup>	.709"	.39	.37	.35
393491	RAF	4509-440A <sup>1</sup>	.750"	.49	.45	.39
393503	RAF	4513-440A <sup>1</sup>	1.00"	.55	.49	.45

A: †.090" thread depth

## .250" Hex M/F 4-40 Thread (Fig. 2)

A: .250"; B: .187"

Part No.	*Mfr.	Mfr. Part No.	Length of L	Pricing		
				1	10	100
77586	RAF	4530-440A <sup>1*</sup>	.250"	\$.39	\$.29	\$.25
77594	FAS	4532-440A <sup>1**</sup>	.375"	.35	.32	.29
111756	RAF	4534-440A <sup>1</sup>	.500"	.49	.45	.39
139214	RAF	4536-440A <sup>1</sup>	.625"	.49	.45	.39
139222	RAF	4538-440A <sup>1</sup>	.750"	.55	.49	.45
139231	RAF	4542-440A <sup>1</sup>	1.00"	.59	.55	.49
128566	RAF	4546-440A <sup>1</sup>	1.25"	.79	.75	.69
166546	FAS	4550-440A <sup>1</sup>	1.50"	.99	.95	.89

## .250" Hex M/F 6-32 Thread (Fig. 2)

A: .375"; B: .250"

Part No.	*Mfr.	Product No.	Length of L	Pricing		
				1	10	100
133542	RAF	4530-632A <sup>1*</sup>	.250"	\$.29	\$.27	\$.25
133568	RAF	4532-632A <sup>1**</sup>	.375"	.39	.35	.29
77607	RAF	4534-632A <sup>1</sup>	.500"	.42	.39	.32
2235655	RAF	4536-632A <sup>1</sup>	.625"	.49	.45	.39
77623	RAF	4538-632A <sup>1</sup>	.750"	.55	.49	.45
77650	RAF	4542-632A <sup>1</sup>	1.00"	.59	.55	.49

A: \*.157" \*\*.282" thread depth

## .250" Hex M/F 8-32 Thread (Fig. 2)

A: .437"; B: .375"

Part No.	*Mfr.	Product No.	Length of L	Pricing		
				1	10	100
2235583	FAS	4530-832A <sup>1#</sup>	.250"	\$.39	\$.35	\$.29
2235591	FAS	4532-832A <sup>1✓</sup>	.375"	.45	.39	.35
2235604	FAS	4534-832A <sup>1\$</sup>	.500"	.45	.39	.35
2235612	FAS	4536-832A <sup>1</sup>	.625"	.49	.45	.35
2235621	FAS	4538-832A <sup>1</sup>	.750"	.59	.49	.39
2235639	FAS	4542-832A <sup>1</sup>	1.00"	.69	.59	.49

A: \*.090" ✓.215" \$ .340" thread depth

JAMECO ValuePro

## SAE Hardware

• Zinc-plated steel

\* Web Code: JNN

## Slotted Pan Head Machine Screws

Part No.	Thread	Screw Size	Length (in.)	10 piece multiples		
				10	100	1000
38173	2-56	2	.250	\$.12	\$.063	\$.051
2094338	2-56	2	.500	.09	.046	.037
40952	4-40	4	.250	.10	.025	.02
40970	4-40	4	.375	.09	.019	.016
106810	4-40	4	.500	.09	.021	.017
106543	6-32	6	.250	.09	.019	.015
42446	6-32	6	.375	.09	.022	.017
42438	6-32	6	.500	.10	.023	.018
2094346	8-32	8	.250	.10	.02	.016
106817	8-32	8	.375	.10	.021	.017
106797	8-32	8	.500	.10	.028	.022

## Phillips Pan Head Machine Screws

Part No.	Thread	Screw Size	Length (in.)	10 piece multiples		
				10	100	1000
2094354	2-56	2	.250	\$.12	\$.063	\$.051
2094371	2-56	2	.500	.11	.046	.037
2185871	4-40	4	.187	.07	.019	.015
2094389	4-40	4	.250	.09	.029	.023
2185889	4-40	4	.312	.07	.019	.015
2094397	4-40	4	.375	.09	.019	.015
2094400	4-40	4	.500	.09	.021	.017
2235680	4-40	4	.750	.09	.021	.017
2170231	4-40	4	1.00	.12	.081	.059
2094418	6-32	6	.250	.09	.019	.015
2094426	6-32	6	.375	.10	.03	.024
2094434	6-32	6	.500	.09	.025	.018
2185900	6-32	6	.625	.07	.019	.015
2185918	6-32	6	.750	.09	.021	.017
2235698	6-32	6	1.00	.10	.026	.019
2094442	8-32	8	.250	.09	.02	.016
2094451	8-32	8	.375	.09	.021	.017
2094469	8-32	8	.500	.10	.029	.022

## Flat Washers

Part No.	Screw Size	Outer Dia. (in.)	10 piece multiples		
			10	100	1000
2094725	2	.188	\$.11	\$.041	\$.033
211131	4	.237	.06	.007	.005
106826	4	.281	.06	.008	.006
106833	6	.373	.07	.01	.008
106842	8	.375	.11	.039	.031
2159971	3/8	.625	.16	.13	.11
2186187	7/16	.650	.19	.15	.12

## Split Lock Washers

Part No.	Screw Size	Outer Dia. (in.)	10 piece multiples		
			10	100	1000
106789	2	.172	\$.12	\$.059	\$.041
40977	4	.242	.11	.047	.031
42463	6	.240	.15	.065	.045
51609	8	.279	.19	.135	.11

## Internal Tooth Lock Washers

Part No.	Screw Size	Outer Dia. (in.)	10 piece multiples		
			10	100	1000
2094733	2	.200	\$ .12	\$ .07	\$ .059
106850	4	.258	.09	.013	.01
106868	6	.277	.09	.01	.008
106877	8	.323	.09	.015	.012
2089803	1/2	.509	.19	.17	.15
101531	3/8	.500	.19	.15	.12
2230918	11/16	.955	.29	.19	.15
2235102	17/32	.700	.35	.29	.25
2203240	1.0	1.390	.39	.29	.25

# SAE Hardware, Magnets, Mounting Hardware & Rubber Feet

## JAMECO ValuePro SAE Hardware (Continued)

• Zinc-plated steel  
Hex Nuts

\* Web Code: JNN

Part No.	Screw/Thread	Thick (in.)	Hex (in.)	10 piece multiples		
				10	100	1000
38165	2-56	.063	.185	.059	.034	.028
2197450	2-56*	.064	.183	.059	.03	.025
40943	4-40	.090	.243	.065	.014	.011
42420	6-32	.112	.306	.065	.026	.021
51553	8-32	.120	.335	.07	.03	.024
2235815	1/4-28	.220	.4325	.35	.29	.25
2182485	1/4-40\$	.352	.118	.89	.75	.59
2203119	3/8-32	.085	.435	.15	.12	.10
2185782	3/8-32	.093	.495	.19	.15	.12
2182784	5/16-32	.095	.377	.19	.17	.15
2233879	5/16-32	.095	.432	.19	.17	.15
2235090	17/32-32	.093	.625	.45	.39	.35
2192501	7/16-32	.095	.562	.69	.59	.45
2086282	1/2-28	.097	.564	.49	.39	.29
2230900	11/16-27	.095	.810	.69	.59	.49
2203231	1-27	.133	1.125	.69	.59	.49
2235170	3/4-24	.125	.875	.69	.59	.49
2227997	M6XP0.5	.0565	.317	.29	.25	.19
2228009	M6XP0.5\$	.071	.317	.29	.25	.19
2203688	M6XP0.75	.0565	.317	.29	.25	.19

\* Stainless steel ✓ Knurl \$ Beveled

## PCB, Fan & Cable Mounting Hardware

\* Web Code: PSF



Part No.	Cross Ref.	Size (in.)	Holes	Order in multiples of 10	
				10	100
1581572	904	Terminal stud #6	.09" .....	.19	.15
28337	CS1016*	1.2L x 0.6W	.20" .....	.15	.12
129252	PCST2*	0.9L x 0.4Dia.	.2"/.3" .....	.15	.12
2133755	PCST3C*	0.7L x 0.5W	.1"/.2" .....	.05	.04
2133763	PCST4C*	0.8L x 0.5W	.1"/.3" .....	.07	.05
156831	CS-10*	0.68L x 0.32Dia.	.140" .....	.15	.12
2235233	SB8R-2	Round strain relief .875"	.....	.29	.25
2188481	8825-S✓	0.4L x 0.2W	.196" .....	.15	.09
2188490	8825†	0.4L x 0.2W	.196" .....	.15	.10
2233271	RC-FMB	0.5" cable brkt #4	.1"/.3" .....	.25	.22

\* Nylon PCB/Fan standoffs ✓ Chrome † Black anodize

## JAMECO ValuePro Round Magnets

2244931: Neodymium button  
2181319: Barrel-shaped, neodymium rare earth magnets with nickel plating for durability, 8mm dia. (10-pack)  
2111425: Nickel-plated with matte finish and magnetized  
2192392: Dark colored, barrel shaped neodymium rare magnets, 12.5mm dia.  
2181327: Barrel-shaped, neodymium rare earth magnets with nickel plating for durability, 12mm dia. (6-pack)  
2238194: Barrel-shaped, neodymium rare earth magnet with nickel plating, 12.5mm diameter  
2229589: Dark colored, ceramic donut w/.09"Dia. hole

Part No.	Size (Dia. x Thick)	1	10	100
2244931	.200" x .100" .....	\$.39	\$.35	\$.29
2181319	.310" x .120" .....	3.95	3.59	3.25
2111425	.375" x .125" .....	1.25	1.09	.99
2192392	.435" x .255" .....	.59	.49	.39
2181327	.480" x .125" .....	6.95	6.25	5.89
2238194	.492" x .098" .....	.75	.65	.59
2229589	.505" x .200" .....	.49	.39	.29

## Instrumentation Handles

• 6-32 thread • Diameter: 0.25"

Part No.	Description	1	10	100
2228421	2.50"H x 1.25"W (black) .....	\$1.75	\$1.49	\$1.25
2272623	4.00"H x 1.00"W (aluminum) .....	1.95	1.75	1.49

## SAE and Metric Panel Mounting Hardware

Hardware sold separately  
See Website for pricing

\* Web Code: JNN

SAE/Metric Thread	Hex or Knurl Nut Part No.	Flat Washer Part No.	Int. Tooth Washer Part No.	Flat Keyway Washer Part No.
10-32 UNS	2183314*		2182531*	
10-48 UNS	578110*		2182531*	2182590*✓
1/4-32 UNS	2183331*	2183381	578339*	
1/4-40 UNS	578321*	2183381	578339*	578347*✓
1/4-40 UNS	578321*	2183381	578339*	2182493*#
5/16-32 NEF	2182784*	2182792*	2201527	
3/8-32 NEF	2182514*	2183293	2185791 (small)*	2233861
3/8-32 NEF	2182514*	2183293		2233861
7/16-32 UNS	2192501*	2186187*		
15/32-32 NS	578371*	2159963	2182557*	578380*✓
1/2-28 NEF	740914*	2183234*		
M6 x 0.50†	2183226*\$	2182637*		
M7 x 0.75	2182629*	2182565*	2227161	2183411
M8 x 0.75	2182573*	2182717*		
M9 x 0.75	2182696*	2183251*		
M10 x 0.75	2159947*	2183306	2182741*	2233861
M12 x 0.75	2182725*			2182750*✓
M13 x 0.75	2185686			

# D style (ID) keyway ✓ O style keyway † Lock washer (option); M6 x 0.50 Hex nut (P/N 2227997) and M6 x 0.75 Hex nut (P/N 2203688) \$ Knurled nut

## Prepackaged Panel Mounting Hardware Kits

Hardware sold in kits

\* Web Code: PAM

Part No.	Mfr. Part No.	Description	Pricing		
			1	10	100
2183322	10-32HDWR	(2) nuts (1) washer	\$.49	\$.45	\$.39
2182549	10-48HDWR	(2) nuts (2) washers	.59	.49	.39
2183349	1/4-32HDWR ✓	(2) nuts (1) washer	.99	.89	.79
2182477	1/4-40HDWR	(2) nuts (2) washers	.89	.79	.69
2182805	1/4-40HDWR (D)	(2) nuts (2) washers	.59	.49	.39
281852	5/16-32HDWR	(2) nuts (1) washer	.69	.59	.49
2186030	3/8-32HDWR ✓	(2) nuts (1) washer (small)	.69	.59	.49
2182611	3/8-32HDWR	(2) nuts (1) washer (large)	.69	.59	.49
2186208	7/16-32HDWR	(2) nuts (1) washer	1.49	1.25	1.09
2182506	15/32-32HDWR	(2) nuts (2) washers	.99	.89	.79
2186021	1/2-28HDWR	(2) nuts (1) washer	.99	.89	.79
2183218	M6HDWR	(2) nuts (1) washer	.69	.59	.49
2182688	M7HDWR	(2) nuts (1) washer	.69	.59	.49
2182602	M8HDWR	(2) nuts (1) washer	.79	.69	.59
2182709	M9HDWR	(2) nuts (1) washer	.69	.59	.49
2183242	M10HDWR	(2) nuts (1) washer	.49	.45	.35
2182733	M12HDWR	(2) nuts (2) washers	.99	.89	.79

The parts indicated with "\*" on the left are included in the kits on the right.

## KEYSTONE Right Angle (L)

### Mounting Brackets

Fig. 1

Fig. 2

Jameco Part No.	Keystone Part No.	Fig.	Dimensions (in.)					Pricing			
			A	B	C	G Dia.	H Dia.	1	10	100	500
Non-Threaded Clear Hole Universal Mounting Brackets											
2203135	613	2	.390	.453	.375	.128	.147	\$.39	\$.35	\$.27	.23
2203151	4335	1	.562	.562	.500	.120	.120	.45	.39	.29	.25
2203160	618	2	.628	.628	.375	.169	.169	.59	.45	.35	.31
Threaded Hole Universal Mounting Brackets											
2203178	612	1	.343	.375	.250	4-40	.130	\$.25	\$.23	\$.16	.14
1581530	621	1	.343	.375	.250	4-40	4-40	.33	.29	.21	.19
2203186	616	1	.453	.312	.250	4-40	.136	.49	.45	.35	.31
2203194	634	1	.375	.375	.281	6-32	.140	.49	.45	.37	.33
2203207	614	2	.420	.343	.312	6-32	.144	.29	.25	.19	.16
2203215	4334	1	.562	.562	.500	6-32	6-32	.45	.39	.35	.29
2203223	617	2	.578	.500	.500	6-32	.165	.49	.45	.35	.31

## JAMECO ValuePro Adhesive Rubber Feet

\* Web Code: FAV

These durable, pressure sensitive, adhesive-backed urethane bumpers adhere quickly, resist marring and staining on surfaces and give excellent skid and abrasion resistance.



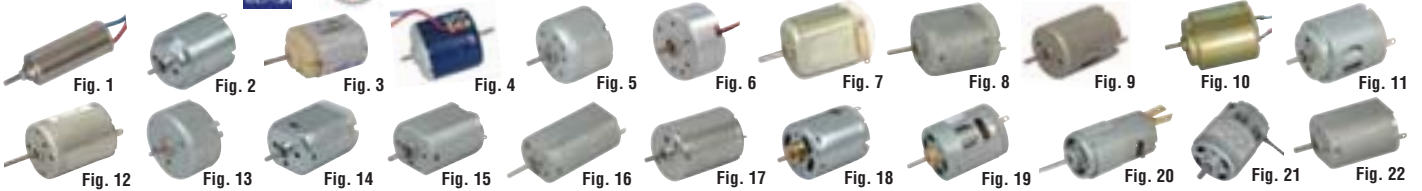
Part No.	Cross Ref. No.	Type	Fig.	Pack	W" x H"	1	10	50
2119718	BS-34-100BL	Blk cylindrical	1	100	.38 x .13	\$3.95	\$3.59	\$3.29
142658	SJ5012BLKC	Blk cylindrical	1	100	.50 x .14	6.95	6.25	5.59
126981	SJ5023BLK4	Blk square tapered	2	4	.81 x .30	1.09	.99	.85
142666	SJ5023BLKC	Blk square tapered	2	100	.81 x .30	15.95	14.49	12.95
142771	SJ5008BLKC	Blk square tapered	3	100	.50 x .12	7.95	6.95	6.25
142682	SJ5018BLKC	Blk square tapered	4	100	.50 x .23	10.95	9.95	8.95
2185539	BS-18-CLEAR100	Clear recessed	5	100	.50 x .14	7.95	6.95	6.25
2081385	GB201	100 asst. size/type bumpers & rubber feet				8.95	7.95	6.95



## 1.3VDC – 24VDC Motors



★ Web Code: FBN



Part No.	Manufacturer	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency (%)	Terminal Type	Shaft Dia. (in.)	Shaft Length (in.)	Size Dia. x Depth (in.)	Pricing		
						Speed (RPM)	Current (Amps)	Torque (g-cm)						1	10	100
2209043	Jinlong	ZASL2A0000000*	1	1.3	1-1.6	21000	0.05	0.3	50	1" wires	0.07	0.10	0.16 x 0.40	\$1.49	\$1.25	\$ .99
2235014	Mabuchi Motor	RF-330TK-07800	2	1.5	1-3	570	0.004	.84	.50	0.09"/solder	0.06	0.34	0.95 x 0.078	1.95	1.75	1.49
231917	ReliaPro	FE-260-2670	2	1.5	1.5-3	3700	0.66	10.5	42.9	0.12"/solder	0.078	0.314	0.937 x 1.063	2.95	2.75	2.49
2192755	Mabuchi Motor	FA130RA-2270#	3	1.5	1.5-3	6990	0.66	6.0	42.5	0.07"/solder	0.078	0.30	0.787 x 1.05	2.95	2.59	1.95
2235049	Mabuchi Motor	RE-140RA-2270	2	1.5	1.5-3	6150	0.21	6.7	50	4"/wires	0.078	0.30	0.82 x 0.98	3.95	3.49	2.95
2209094	Mabuchi Motor	MABUCHI-55	4	1.5	1.5-12	1350	0.32	6.0	50	5" wires	0.09	0.35/0.25	1.35 x 1.38	1.95	1.75	1.49
238465	ReliaPro	RF-310TA-11400 (CW)	5	2.5	1-6	2190	0.06	3.3	48.13	0.05"/solder	0.078	0.70	0.962 x 0.78	2.95	2.75	2.49
2158442	Nichibo	RF-500TB-18280-R	5	3	1-3	2104	0.17	13.4	60	0.07"/solder	0.078	0.34	1.25 x 0.75	2.95	2.75	2.49
238458	ReliaPro	RF-300CA-11400 (CW)	6	3	1-6	2400	0.065	4.3	56.4	3" wires	0.078	0.15	0.96 x 0.52	3.49	2.95	2.75
154915	Jency Motor	ST130-12240-38	7	3	1.5-3	3588	0.17	7.4	55	0.09"/solder	0.08	0.37	0.79 x 1.13	2.49	2.25	1.95
1939589	ReliaPro	FF-130RH-15210	8	3	1-4	4280	0.17	5.8	50	0.08"/solder	0.08	0.24/0.21	0.79 x 0.98	2.95	2.75	2.49
1951449	ReliaPro	QJT-260-18130	2	3	1.5-4.5	4780	0.46	10	40	0.12"/solder	0.078	0.25	0.944 x 1.071	2.95	2.75	2.49
2237765	Nichibo	FE-260B-20110-LR/46	9	3	1-3	5126	0.756	14.35	35.1	4" wires	0.078	0.52	0.93 x 1.05	1.79	1.69	1.49
231925	ReliaPro	FE-260-2295	2	3	1.5-4.5	6850	0.63	14	53.9	0.12"/solder	0.078	0.25	0.937 x 1.063	2.75	2.49	2.25
2258507	Mabuchi Motor	RE-260RA-2295#	2	3	1.5-4.5	7600	0.63	13.4	54.6	Wire/push-in	0.08	0.22	0.9 x 1.0	1.95	1.75	1.49
2233932	Mabuchi Motor	RE-260RA/2295	10	3	1.5-4.5	7600	0.636	13.4	54.6	6"/wires	0.07	0.26	0.93 x 1.07	2.49	1.95	1.75
154923	Jency Motor	ST-130-22770	7	3	1.5-3	13200	0.95	10.3	40	0.09"/solder	0.08	0.37	0.79 x 1.13	2.49	2.25	1.95
211246	ReliaPro	RC-260RA-2670	11	4.5	3-4.5	15290	1.43	21.8	53	0.11"/solder	0.08	0.28	0.93 x 1.06	2.75	2.49	2.25
2229976	Nichibo	FE-2280SB-2295	12	6	1-6	7949	0.802	34.75	62	0.12"/solder	0.078	0.60	0.95 x 1.77	2.95	2.59	2.29
2173044	Nichibo	RF-500TB-12560	13	6	6-12	2100	0.08	11	58	0.08"/solder	0.078	0.342	1.259 x 0.767	3.95	3.49	2.95
2230037	Nichibo	RF-500TB-14415	13	6	1-6	2755	0.164	18.2	55.16	0.77"/solder	0.078	0.345	1.25 x 0.67	3.95	3.49	2.95
231829	ReliaPro	PC-280-16210	14	6	3-12	4260	0.28	18	47.6	0.08"/solder	0.078	0.433	0.944 x 1.20	2.49	2.25	2.09
2158434	Nichibo	RF370CH-22170-R	12	6	1-6	4787	0.45	34.28	63	0.15"/solder	0.078	0.19	0.96 x 1.20	2.25	1.95	1.75
231781	ReliaPro	PC-130F-12240	15	6	3-9	6800	0.25	7.0	33.4	0.08"/solder	0.078	0.377	0.803 x 0.984	4.25	3.99	3.49
232144	ReliaPro	FF-050S-11170	16	7	1.5-9	8500	0.17	7.0	51.3	0.08"/solder	0.059	0.433	0.61 x 1.059	2.95	2.49	2.25
177498	ReliaPro	RC280RA-2485	9	7.2	3-14	14260	1.18	33.3	57	0.11"/solder	0.08	0.43	0.95 x 1.20	2.95	2.75	2.49
2258574	Nichibo	HP5FN-55155-R/72.5	17	10.8	1.20-12	18450	7.69	305	71	0.28"/solder	0.12	0.53	1.42 x 1.97	2.95	2.49	1.95
174693	ReliaPro	21226-384221	12	12	9-14	3000	0.015	85.06	80	0.11"/solder	0.08	0.71	0.97 x 1.19	3.49	2.95	2.75
2209203	Nichibo	MC5BN-12200	18	12	2-20	3203	0.201	36.05	50.9	5" wires	0.09	1.00	1.09 x 1.29	2.95	2.49	2.25
2224024	Nichibo	KP5FN-3255-R	17	12	1-20	4348	1.19	1660	72	0.15"/quick conn	0.12	0.49	1.4 x 2.2	5.95	5.49	4.95
2155153	Nichibo	PC-260SB-10400-NR/38	14	12	1.5-15	4719	0.15	97.7	55	0.08"/solder	0.24	0.22	0.7 x 1.06	1.95	1.75	1.49
2211101	Nichibo	RF370CH-15370-R	17	12	1.6-16	4378	0.19	31	62	0.15"/solder	0.08	0.42	0.995 x 1.25	1.75	1.49	1.25
231732	ReliaPro	PC-130SF-09480	15	12	6-24	4800	0.11	12.3	49.6	0.08"/solder	0.078	0.377	0.803 x 0.984	3.95	3.49	2.95
238473	Mabuchi Motor	RF-370CA-15370	17	12	3-12	4840	0.17	25.3	75	0.08"/solder	0.078	0.346	0.96 x 1.213	3.49	2.95	2.75
206949	Nichibo	QJT360S14280	19	12	9-30	4930	0.35	44.5	52	0.11"/solder	0.09	0.45	1.09 x 1.30	3.49	2.95	2.75
231896	ReliaPro	FE-260-08450	2	12	6-12	5560	0.11	10.3	46.6	0.12"/solder	0.078	0.314	0.937 x 1.063	2.95	2.65	2.35
2167681	Nichibo	DC-130SB-10410	3	12	6-12	5624	0.2	18.17	47	Plug-in	0.09	0.519	0.78 x 1.00	1.49	1.25	.99
2167592	Nichibo	LS5BFN-2465	18	12	6-18	7205	0.75	83.3	72	0.11"/solder	0.09	0.54	1.09 x 1.48	2.95	2.49	2.25
2217781	Nichibo	PC260SB-14280-NR	8	12	12-18	7524	0.25	23.2	61	0.08"/solder	0.078	0.43	0.96 x 1.06	1.95	1.75	1.49
2235057	Maxon	110121	2	12	1.5-12	7770	0.586	63.7	84	1.6"/wires	0.078	0.20	0.87 x 1.25	6.95	6.25	5.59
2258515	Nichibo	770-7040AS-R/94	20	12	1.7-17	8703	7.437	753	79	0.34"/solder	0.16	0.58	1.77 x 2.60	2.95	2.59	2.29
2234812	Nichibo	PC-260SB-14280	8	12	6-12	7524	0.25	23.25	61	4.0"/wires	0.08	0.22	0.95 x 1.06	2.95	2.75	2.49
232022	ReliaPro	MD5-1885	18	12	6-18	9820	0.74	53.5	60.7	0.11"/solder	0.091	0.622	1.082 x 1.279	3.49	2.95	2.75
2258531	Nichibo	DC-280ST-19155PAS/50	14	12	1.50-15	10235	0.653	49.38	67	0.09"/solder	0.06	0.6	0.95 x 1.26	1.95	1.75	1.49
2258523	Nichibo	FK-180SH-18130-R/42	16	12	2-20	11806	0.762	44.24	61	0.16"/solder	0.079	0.18	0.61 x 1.30	1.95	1.75	1.49
232040	ReliaPro	MD5-2070	18	12	6-12	12586	1.3	52	62.7	0.12"/solder	0.091	0.48	1.082 x 1.279	2.95	2.75	2.49
2210845	Nichibo	775-7013F-R	12	12	1-12	12610	13.52	93.7	76	0.19"/solder	0.19	0.57	1.77 x 2.59	2.95	2.59	2.29
2208833	Nichibo	UC-130S-18149PW\$	18	12	6-12	16234	0.98	35.93	52	0.08"/solder	0.07	0.31/0.43	0.78 x 1.00	1.95	1.75	1.49
2258540	Nichibo	KC3SFN-8021F/75	11	12	1.5-15	19455	16.09	648	68	0.28"/solder	0.51	0.33	1.50 x 2.51	2.95	2.59	2.29
232047	ReliaPro	MD5-2445	18	12	6-12	19850	2.05	79.7	66	0.12"/solder	0.091	0.622	1.082 x 1.279	4.95	4.49	3.95
2208850	Nichibo	UC-130S-22103PW\$	18	12	6-12	25253	1.48	33.20	50	0.08"/solder	0.078	0.31/0.43	0.78 x 1.00	2.95	2.59	2.29
2258785	Nichibo	736-8017F-R-CE-IE/76	21	18	1-18	17794	18.58	134	74	2.0"/wires	0.197	0.55	1.70 x 2.10	9.95	8.95	7.95
2258558	Nichibo	DC-130S-06840-NR/42	3	24	3.0-30	5615	0.069	13.56	50	0.09"/solder	0.08	0.53	0.80 x 1.04	1.95	1.75	1.25
2218011	Mabuchi Motor	RS385PH-29505	12	24	12-30	7420	0.41	84.6	55	0.11"/solder	0.09	0.96	1.08 x 1.49	1.95	1.75	1.49
2188828	Nichibo	PC-130SBF-10400TB-R/48	22	24	1-34	10823	0.24	25.4	48.8	0.11"/solder	0.07	0.65	0.8 x 0.98	1.49	1.25	.95

\* With copper gear      \* Micro DC      \$ Dual shaft

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NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

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# Reversible Gear Head & Specialty Gear Motors

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## 6, 12 & 24VDC Reversible Gear Head Motors

- Solder-type terminal
- High torque construction
- Dielectric strength: 300VDC
- Insulation resistance: 10MΩ
- Oil bearing design for long service life

### 32GM Series

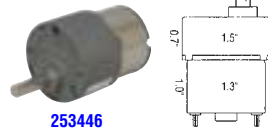
Part No.	Mfr. Part No.	Rated Voltage (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
			Speed (RPM)	Current (mA)	Torque (g-cm)					1	5	25
2146505	B32-6V3.1RPM	6	2	90	7350	340:1	1.9 x 0.41	1.3 x 0.9	.28 x .87	\$14.95	\$13.95	\$12.95
253307	B32-6V9RPM	6	8	38	1200	150:1	1.9 x 0.41	1.3 x 0.9	.30 x .70	14.95	12.95	10.95



32GM Series

### 38GM Series

253534	38-010	12	24	97	7500	250:1	1.46 x 1.0	1.3 x 0.9	.24 x .50	\$16.95	\$14.95	\$13.49
253518	38-008	12	40	87.5	4800	150:1	1.46 x 1.0	1.3 x 0.9	.24 x .50	16.95	14.95	13.49
253500	38-007	12	66	80	3200	100:1	1.46 x 0.7	1.3 x 0.9	.24 x .50	17.95	15.95	13.95
253489	38-005	12	104	220	600	56:1	1.46 x 0.7	1.3 x 0.9	.24 x .50	14.95	13.49	11.95
253471	38-004	12	115	220	600	50:1	1.46 x 0.7	1.3 x 0.9	.24 x .50	15.95	14.49	12.95
253446	38-001	12	600	61.8	350	10:1	1.46 x 0.7	1.3 x 0.9	.24 x .50	16.95	15.95	14.95



38GM Series

### Nichibo Gear Head Motor

2197476	MD3B-14280-R	12	5214	327	42.89	180:1	1.45 x 1.06	1.1 x 1.3	.24 x .30	\$3.95	\$3.59	\$3.29
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### HN27GD Series

Part No.	Mfr. Part No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Speed (RPM)	Current (mA)	Torque (g-cm)					1	5	25
167039	GH12-0953Y	12	4.5 - 24	9	90	1200	188:1	1.1 x 1.0	1.0 x 0.9	.16 x .43	\$17.95	\$15.95	\$14.49



HN27GD Series

### GH30GM Series

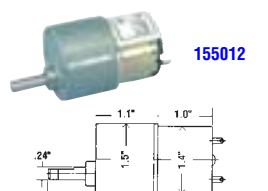
153438	HN-GH12-1045Y-R	12	3.0 - 12	13	96	800	200:1	1.1 x 0.6	0.9 x 1.0	.16 x .57	\$15.95	\$14.49	\$12.95
162191	HNGH12-1324Y-R	12	4.5 - 12	190	145	300	30:1	1.1 x 0.6	1.0 x 0.9	.16 x .57	17.95	15.95	14.49



GH30GM Series

### GH35GM Series Plastic Gears

155012	GH12-1926	12	4.5 - 12	1.3	66	6000	3000:1	1.4 x 1.0	1.3 x 1.0	.23 x .70	\$21.95	\$20.95	\$19.95
155821	GH12-1830Y-P	12	4.5 - 12	3	76	4500	1000:1	1.4 x 0.9	1.3 x 1.0	.23 x .70	24.95	22.49	19.95
155839	GH12-1641T-L	12	3.0 - 12	17	141	3000	270:1	1.4 x 0.75	1.3 x 1.0	.23 x .70	25.95	23.49	20.95
152911	GH12-1926Y	12	4.5 - 12	40	206	2370	100:1	1.4 x 0.6	1.3 x 1.2	.24 x .90	24.95	22.49	19.95
161382	GH12-1634T	12	4.5 - 12	160	306	850	30:1	1.4 x 0.6	1.3 x 1.0	.23 x .70	25.95	23.49	20.95
164786	GH12-1640Y	12	4.5 - 24	222	166	300	10:1	1.4 x 0.6	1.3 x 1.0	.23 x .70	24.95	22.49	19.95
176050	GH12-1640Y00	24	12 - 24	1.7	71	6000	3000:1	1.4 x 0.6	1.3 x 1.0	.23 x .70	24.95	22.49	19.95



GH35GM Series

### GH35GM Series Metal Gears

2150491	RS003A†	6	2.0 - 7.5	133	350	8800	75:1	.98 x 0.9	.97 x 1.2	.16 x .38	\$12.95	\$11.95	\$10.95
2150504	RS003B†	6	2.0 - 7.5	293	350	4000	34:1	.98 x .83	.96 x 1.2	.16 x .38	12.95	11.95	10.95
155013	HN-GH121926Y-R	12	4.5 - 12	2	250	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	24.95	22.95	19.95
155822	GH12-1830Y-P-R-M	12	4.5 - 12	4.5	250	4500	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	21.95	19.95	17.95
151442	HN-GH12-1632T-R-M	12	4.5 - 12	57	275	2200	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	23.95	21.49	19.49



GH35GM Series

†Manufacturer: Dagu



## Specialty Gear Motors

Part No.	Mfr.	Product No.	Rated Voltage	Operating Range	Speed (RPM)	Current (mA)	Torque (g-cm)	Gear Ratio	Size (L" x W" x H")	Shaft Size Dia. x Length (in.)	Special Feature	Pricing		
												1	5	25
2150432	Dagu	DG01D	4.5 VDC	4.5 VDC	90	190	800	—	2.5 x 1.5 x 0.9	0.21 x 0.31	Motor pair with 90° shaft	\$7.95	\$6.95	\$5.95
2260834	Dagu	DG01D*	4.5 VDC	4.5 VDC	90	190	800	—	2.5 x 1.5 x 0.9	0.21 x 0.31	Motor pair with 90° shaft	8.95	7.95	6.95
400995	Solarbotics	GM8	6 VDC	3-6 VDC	78	57	5500	143	2.17 x 1.89 x 0.91	0.28 x 0.20	Offset/inline plastic gear motor	5.95	5.49	4.95
2128219	Pololu	1101	6 VDC	6 VDC	320	80	2200	100	0.94 x 0.39 x 0.47	0.12 x 0.35	Mini Gear motor	14.95	13.95	12.95
2235081	Maxon	2-11945	12 VDC	3-18 VDC	107	10	130	131	2.52 x 0.87 x 0.87	0.087 x 0.43	Mini Gear motor	9.95	8.95	7.95
2238101	Pololu	2827	12 VDC	6-12 VDC	80	250	18000	131	2.71 x 1.45 x 1.45	0.24 x 0.52	64 CPR encoder	34.95	32.95	29.95
213488	ReliaPro	50TYZ-R	120 VAC	100-120 VAC	6	40	6700	—	2.0 x 2.0 x 1.0	0.28 x 0.52	Clockwise rotation	12.95	11.49	9.95

\*With 6" leads and crimp pins



## AC Synchronous Motor

- Uses 4μF 100V non-polarized capacitor (not included)
- Voltage: 24VAC & 50/60Hz
- Speed: 250/300RPM
- Sleeve bearing
- Operating temp.: -10°C to +40°C
- 4" x 3" wire leads with connector



Part No.	Mfr. Part No.	Torque	1	10	100
2231638	SP4023	2.3 oz-in.	\$8.95	\$7.95	\$6.95



## GRAB BAGS

- Motor voltages 1.5V to 24V
- Steel/aluminum spacers & standoffs

Part No.	Description	No. of Pcs.	Wt. (lbs.)	1	10
18294	Toy motors grab bag	5	0.5	\$7.95	\$6.95
55968	Hardware grab bag	100	0.3	14.95	12.95

# Vibrating Motors & Stepper Motors

JAMECO ReliaPro

## 1.3VDC & 3VDC Vibrating Motors

\*Web Code: NBC

- Typical applications: cellular phones, pagers and toys



Part No.	Cross Ref. No.	Fig.	Operating Voltage (VDC @ mA)	Operating Range (VDC)	Rated RPM @ VDC	Lead Length (in.)	Motor Size (A x B) (Dia. x Depth)	Shaft Size (C x D) (Dia. x Length)	Pricing		
									1	10	100
175062	OTL-7AL	1	1.3 @ 62	0.70 - 1.60	7000 @ 1.3	0.7	0.28 x 0.67	0.10 x 0.18	\$3.95	\$3.49	\$2.95
256306	62K003	1	1.3 @ 80	0.85 - 1.60	8500 @ 1.3	1.0	0.23 x 0.39	0.10 x 0.10	2.95	2.65	2.25
2236762	Z6SCAA0061141	3	1.3 @ 90	0.90 - 1.60	8500 @ 1.3	PC terminal	0.27 x 0.40	0.11 x 0.16	2.59	2.25	1.95
256322	62K211	3	1.3 @ 80	0.80 - 1.60	8500 @ 1.3	PC terminal	0.27 x 0.48	0.11 x 0.11	2.75	2.49	2.25
2230838	C1226A001F	4	1.3 @ 100	1.10 - 1.60	9000 @ 1.3	1.0	0.47 x 0.11	No shaft	2.95	2.65	2.25
2209035	Z4SL2A0280131	2	1.3 @ 85	1.10 - 1.60	10000 @ 1.3	1.0	0.18 x 0.40	0.20 x 0.15	2.95	2.65	2.35
256365	72K692	1	3.0 @ 60	2.40 - 3.00	6500 @ 3.0	4.7	0.28 x 0.66	0.18 x 0.22	3.95	3.49	2.95
256382	72K681	1	3.0 @ 60	2.40 - 3.60	7500 @ 3.0	1.1	0.28 x 0.66	0.12 x 0.16	3.95	3.49	2.95
2230184	Z6DL2B0055211	5	3.0 @ 70	2.40 - 3.60	11000 @ 3.0	0.875	0.27 x 1.00	No shaft	3.95	3.49	2.95
256314	62K053-R	1	3.0 @ 75	1.60 - 3.60	8500 @ 3.0	1.0	0.15 x 0.10	0.15 x 0.10	3.25	2.95	2.65
2237781	62K053-R*	2	3.0 @ 75	1.60 - 3.60	8500 @ 3.0	1.0	0.15 x 0.10	0.15 x 0.10	3.25	2.95	2.65
2236771	Z6SCOB0170081	3	3.0 @ 75	2.20 - 3.60	8000 @ 3.0	PC terminal	0.27 x 0.40	0.06 x 0.16	2.95	2.59	2.35
256331	62K261	3	3.0 @ 75	2.40 - 3.00	8500 @ 3.0	PC terminal	0.27 x 0.48	0.11 x 0.11	3.25	2.95	2.65
2189476	C1034B98FR	4	3.0 @ 80	2.50 - 4.00	9000 @ 3.0	1.0	0.39 x 0.13	No shaft	3.49	3.25	2.95
2218169	JL1027-001021-30-01	4	3.0 @ 85	1.20 - 3.00	12000 @ 3.0	1.0	0.39 x 0.10	No shaft	3.95	3.59	3.25
2234353	C1020B283F	4	3.0 @ 90	2.30 - 4.00	9000 @ 3.0	1.0	0.39 x 0.09	No shaft	3.49	3.25	2.95

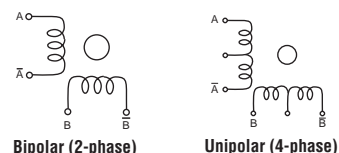
\*With crimp pins

JAMECO ReliaPro

## 4VDC to 24VDC Bipolar & Unipolar Stepper Motors

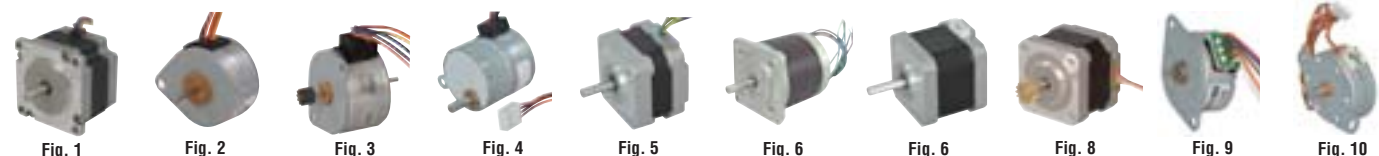
\*Web Code: UBN

Jameco offers the industry's widest variety of off-the-shelf two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 4 to 24VDC models below.



Bipolar (2-phase)

Unipolar (4-phase)



Part No.	Product No.	Fig.	Drive System	Rated Voltage (VDC)	Step Angle (°/5%)	Phase Resis. (Ω)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Wt. (lbs.)	Pricing		
																		1	5	25
237607	57BYGH001	1	Unipolar	5	1.8	5	1000	—	135	3976	1.86	0.20	0.25	0.83	2.24	1.61	1.10	\$29.95	\$27.95	\$24.95
237825	25BY4801	2	Unipolar	5	7.5	10	500	—	45	110	1.38	0.14	0.08	0.35	0.98	0.56	0.07	9.95	8.95	7.95
2138812	35BY48I030-01	3	Unipolar	7	7.5	20	350	11	125	450	1.59	0.12	0.078	0.47	1.37	0.85	0.22	8.95	7.95	6.95
2234476	35BYHJ30-36A	4	Unipolar	12	7.5	50	259	74	—	6000	1.96	0.15	0.20	0.53	1.37	1.37	0.27	10.95	9.95	8.95
155433	42BYG228	5	Unipolar	12	1.8	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	0.50	20.95	18.95	16.95
238538	42BYGH404	5	Unipolar	12	1.8	30	400	25	250	3200	1.22	0.10	0.20	0.95	1.67	1.89	0.60	21.95	19.95	17.95
162027	57BYG084	6	Unipolar	12	1.8	20	600	22	725	6000	2.65	0.20	0.25	1.00	2.20	2.00	1.30	35.95	32.25	28.95
2245626	1124176	7	Bipolar	1.8	1.8	1.2	1500	1.6	—	2243	1.22	0.12	0.20	0.86	1.66	1.34	0.42	14.95	12.95	10.95
2245618	1124278	7	Bipolar	2.25	1.8	1.5	1500	3.3	—	4079	1.22	0.12	0.20	0.86	1.66	1.57	0.64	15.95	13.95	11.95
2245634	1124108	5	Bipolar	3.24	1.8	2.7	1200	5	—	24473	1.22	0.12	0.20	0.63	1.66	1.34	0.44	14.95	12.95	10.95
2234839	42BYG44B	5	Bipolar	4	1.8	4	1000	10	—	3600	1.21	0.10	0.20	0.312	1.65	1.68	0.70	19.95	17.95	15.95
2245600	1124093	5	Bipolar	4.2	1.8	2.8	1500	4.8	—	5500	1.22	0.12	0.20	0.83	1.66	1.89	0.80	19.95	17.95	15.95
2245589	1124142	5	Bipolar	4.5	1.8	3	1500	6	—	6800	1.22	0.12	0.20	0.86	1.66	2.00	0.90	21.95	19.95	17.95
2245597	1124144	5	Bipolar	4.5	1.8	3	1500	6	—	200	1.22	0.12	0.20	0.83	1.66	2.00	0.90	21.95	19.95	17.95
237490	39BYG001	5	Bipolar	5	1.8	5	1000	5	200	1800	1.22	0.10	0.20	0.83	1.54	1.34	0.44	21.95	19.95	17.95
2158531	STP-42D201-37†	8	Bipolar	12	1.8	1.55	1700	5	163	3200	1.22	0.15	0.19	0.68	1.65	1.49	0.60	5.95	5.39	4.79
155460	42BYG023*	5	Bipolar	12	1.8	30	400	36	220	2100	1.73	0.10	0.20	0.60	1.70	1.30	0.50	21.95	19.95	17.95
237472	39BYG401A	5	Bipolar	12	1.8	30	400	32	200	2100	1.22	0.10	0.20	0.95	1.54	1.34	0.44	18.95	17.95	15.95
2245642	1123005	5	Bipolar	14	1.8	35	400	44	—	2200	1.22	0.12	0.20	0.87	1.67	1.34	0.47	15.95	13.95	11.95
2158557	M25SP-5N†	9	Bipolar	24	7.5	50	550	—	177	183	1.25	0.27	0.08	0.22	1.25	0.53	0.06	1.95	1.75	1.49
2209254	PM55L-048-ZXX3	10	Bipolar	24	7.5	5.5	800	—	1400	1600	2.50	0.13	0.25	0.62	2.16	1.00	0.60	3.95	3.49	2.95

\*155460: Dual shaft †Manufacturer: 2158531: Shinano Kenshi; 2158557: Mitsumi

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Stepper & Servo Motor Controllers

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NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## ROBOT 2-Amp Dual-Channel Motor Controller

This motor controller uses the high-power L298N motor driver chip, which allows for direct drive of 2 bidirectional DC motors. It can drive up to 2A of current per motor and uses a broad brush design to reduce wire resistance.

- Logic input voltage: 6V-12V (at 36mA)
- Drive input voltage: 4.8V-46V (at 2A)
- Max. power dissipation: 25W
- Drive type: dual high-power H-bridge driver
- Operating temperature: -25°C to +130°C

Part No.	Mfr. Part No.	Size (L" x W")	Wt. (oz.)	1	5
2159411	DRI0002	1.9 x 2.1	1.03	\$22.95	\$20.95



## KAE Industrial Motion Controllers for Brush, Brushless & Stepper Motors

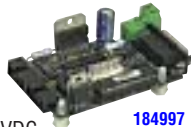
**323942:** • For brush-type DC motors with 2 or 3 channel incremental encoders

- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
- Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
- Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps

**323951:** • For 3-phase brushless motors with Hall effect sensors or conventional DC brush-type motors

- Amplifier capable of driving 6A continuously @ up to 48VDC
- High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
- Support for linear & circular interpolation using the PIC-SERVO CMC chipset
- 184997:** • Trapezoidal position profiling, velocity mode, up to 50,000 steps/sec.
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Integrated indexer and driver for 2 or 4 phase stepper motors

Part No.	Description	Size (L" x W" x H")	1	5
323942	PIC-SERVO motor control board	3.1 x 2.1 x 0.9	\$159.95	\$154.95
323951	PIC-SERVO 3-phase motor control board	3.1 x 3.1 x 0.9	239.95	227.95
184997	PIC-STEP motor control board	3.1 x 2.1 x 0.9	159.95	151.95



## Scorpion XXL- Flexible High Performance Dual Channel Controller

- Standard R/C pulse format • 6.0V to 28V battery voltage
- Module has no servo leads with enclosure
- 20A continuous current (<45A peak)
- Fully current and over temperature limiting
- RC servo signal and analog voltage via potentiometer
- 2 indicator LEDs for left/right speed and direction
- Left/right channel mixing or separate channel control option

Part No.	Mfr. Part No.	Size (L" x W" x H")	Wt. (lbs.)	1	5
2204074	Scorpion XXL	3.27 x 2.27 x 0.5	0.11	\$119.95	\$109.95



## MegaMoto Plus H-Bridge Shield for Arduino

- Supply Voltage: 5-28V (24V max battery)
- 20A continuous (25A when used with a fan)
- 40A surge current (5 seconds), over 1100W
- Stack up to three on an Arduino Uno to drive up to six motors in half-bridge mode.
- Control with Arduino PWM pins and even control other DC loads like solenoids or relays.

Part No.	Mfr. Part No.	Wt. (oz.)	Price
2204023	MegaMoto Plus	1.3	\$59.95



## 4-Ch DC Motor Controller with Encoder Support

- Each channel rated for 4A of stall current
- Built-in control logic allows 2-pin motor control (one pin for speed, one pin for direction)
- Designed for the Rover 5 chassis (P/N 2143865, pg 140)
- Low resistance FET H-bridges • Motor supply: 12VDC max.

**Includes:** Quadrature encoder mixing circuit

Part No.	Mfr. Part No.	Size (L" x W")	1	5
2150539	RS011MC	3.75 x 2.75	\$21.95	\$19.95



**\*DC Gear Motors — Enter Web Code KBB**



## Shaft Couplers

- Used with motors
- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually

**162288**  
(Coupler)



**162000**  
(Rubber Spider)

Part No.	Description	1	10	100
162288	.125" (3.18mm) ID hub	\$1.95	\$1.75	\$1.25
2220331	.135" (3.50mm) ID hub	1.49	1.25	1.09
161998	.197" (5.00mm) ID hub	1.95	1.75	1.49
162270	.250" (6.35mm) ID hub	1.95	1.75	1.49
162000	Rubber spider for couplers	1.95	1.75	1.49

**\*Rotary Switches — Enter Web Code TMU**

**\*Arduino Shields — Enter Web Code AOS**



## Shaft Coupler

- 2 set screws (10-32 x 1/8)
- Size: 0.75"L x 0.5"OD

**\*Web Code: EBE**



Part No.	Description	1	5	25
138288	.250" ID sleeve coupler	\$7.95	\$7.25	\$6.49



## 10-Piece Gear Assortment

- Polyethylene resin
- Gears are 0.147" bore size
- Bushings are 0.07" bore diameter
- T10, T20, T30, T40, T50 and bushing

Part No.	Description	1	10	25
1810072	10-pcs. gear set	\$6.95	\$6.25	\$5.95



## 7-Piece Plastic Gear Assortment

- Unbreakable plastic gears
- Teeth -12, 20, 30, 40 +3 bushings • Spur beveled
- Beveled gears are 41, 31, 21mm diameter
- Bushings reduce bore size to 3mm

Part No.	Description	1	10	25
2227680	7-pcs. gear set	\$4.95	\$4.49	\$3.95



**\*Terminal Blocks — Enter Web Code XBD**



## Remote Access rmv\_Tasker-STD Stepper Motor Controller Module

The rmv\_Tasker-STD (shield) web server is a module that interfaces with the ST600 microNET Stepper Motor Controller. Its main purpose is motor control and access to Digital Tachometer sensors through remote access. The rmv\_Tasker enables direct remote access using Modbus communication protocol through TCP/IP, DHCP, HTML, Javascript and FTP. The Modbus module allows control of four axis per address. On-board female headers make it compatible with Arduino. Raspberry Pi connections are made directly through USB connector.

- rmv\_Tasker module link: ethernet, isolated high speed RS485
- rmv\_Tasker module LED: LED's indicators for network and serial link
- rmv\_Tasker web server: FTP, HTML, 32MB file system, TCP/IP secure, IPv4, IPv6, ModBus-TCP/IP-RTU, DHCP, USB OTG, TELNET\_SERVER, ACTIVE\_DHCPV6, USE\_DNS, SD Card, CAN Interface, Javascript, Stand Alone
- Open source: GitHub applications source, HTML page samples, ModBus applications
- rmv\_Tasker absolute encoder: SSI data transition four 2 or 4 shaft encoders Inputs (under development)
- rmv\_Tasker digital I/O's: isolated 4 inputs, 4 outputs, from 5V to 24V

- rmv\_Tasker counter: pulse counter, period calculation
  - Counter mode real: read incoming single-phase pulses, return a binary count
  - Period/Rate mode: count internal clocks during the On period, return a frequency. Outputs are updated only at the end of the period
- rmv\_Tasker Micro-SD card: program store, HTML page file system, max 8GB (not included)

Part No.	Mfr. Part No.	Description	Price
2246830	RMV_TASKER-STD01	Remote Access rmv_Tasker-STD module	\$154.95



**NEW**  
MARKED IN PINK





## Simple H-Bridge (H-Bridge Circuit)

- Designed for driving DC motors and DC loads
- Activate via 555 timers, MCUs or 3V to 5V logic level signals
- Supply voltage: 5V to 28V (24V max. battery rating)
- 20A continuous (25A with fan), >45A surge current
- Size: 2.5"L x 2.25"W • Weight: 1.32 oz.



Part No.	Mfr. Part No.	1	5
2204082	SIMPLE-H	\$49.95	\$48.95



## 6-Channel USB Servo Controller

- 5-16V operating voltage
- USB, TTL (5V) serial and internal scripting
- 0.25µs resolution with built-in speed and acceleration control
- Configure channels as outputs for RC servos, ESCs, digital outputs or analog inputs
- 1kB internal script memory • Can be daisy-chained
- Free configuration control app for Windows®



Part No.	Mfr. P/N	Size (L x W)	1	5
2128180	1350	1.2" x 0.85"	\$19.95	\$18.95



## Motor Driven Actuator

- Model No.: PDL-50
- Input: 12VDC @ 3.3A
- Power rating: 40W
- Push/pull force: 6 kgs
- Stroke: 3/4" travel
- One shot activation
- Dual direction: reverse polarity reverses direction
- Construction: ABS and POM with durable dust proof cover • Limited duty cycle



Includes: Mounting hardware

Part No.	Size (L x W x H)	1	10	100
2230221	5.7" x 1.0" x 2.3"	\$6.95	\$6.25	\$5.59



## 12VDC & 24VDC Continuous Push/Pull Solenoids



2231099



262167



142464



2196748



2238127



2201818

Part No.	*Mfr.	Product No.	Type	Volt. (VDC)	Coil Res. (±10%) (Ω)	Power Consump. (W)	Holding Force (lbs. @20°C)	Stroke (in.)	Dimensions Length x Dia. (in.)†	Shaft Dia. (in.)	Wt. (lbs.)	Pricing		
												1	5	25
2231099	LEX	B16-258-B-1	Open frame-pull	3-9.5	6.35	1.43-14.3	0.90	0.15	1.0 x 0.4 x 0.5	0.15	0.03	\$9.95	\$8.95	\$7.95
262167	JRP	SMT-1325L12STD1	Tubular-pull	12	36	4.0	0.11	0.47	1.0 x 0.5	0.20	0.05	14.95	13.49	11.95
142464	JRP	SH-T1130L-12VDC2	Tubular-pull	12	36	4.0	0.63	0.4	1.6 x 0.4	0.15	0.04	12.49	11.49	9.95
2196748	JRP	SH-T2551L	Tubular-pull	12	14.4	10	3.86	0.4	3.1 x 1.0	0.41	0.39	15.95	14.49	12.95
2238127	JRP	WS01632S-12A21	Tubular-push	12	20.7	5.5	0.77	0.6	2.5 x 0.64	0.1	0.10	16.95	14.95	13.49
2201818	JRP	SH-T2551	Tubular-pull	24	60	40	4.0	1.0	3.1 x 0.87	0.43	0.39	16.95	14.95	13.49
1919203	LEX	191172-001	Stroke-push	12	45	7.3	—	0.50	1.0 x 0.5	0.06	0.10	5.95	5.39	4.79
2219330	ADA	412	Open frame-push/pull	24	100	5.8	1.12	0.22	2.1 x 0.67	—	0.09	10.95	9.95	9.49
2219348	ADA	413	Open frame-push/pull	24	43	13.44	3.37	0.53	2.8 x 1.14	—	0.32	19.95	17.95	15.95

† Open frame type dimensions: L" x W" x H" 1 P/N 2182611 (pg 78), 2 P/N 281852 (pg 78) – additional panel mounting hardware available



## 12VDC Solenoid Valve

- 7psi (max. air pressure)
- Dimensions: 1.2"L x 0.92" Dia.
- 0.250" quick disconnect terminals
- Operating volt.: 12VDC
- Current: 350mA
- Oper. temp.: -29°C to 85°C



Part No.	Cross Ref. No.	1	5	25
169835	TAV-0829-R	\$11.95	\$10.95	\$9.95

\*Web Code: MEJ



## 5VDC 2-Way Solenoid Valve

- 5V @ 100mA, 0.5 watt
- Continuous duty cycle
- 15 psi (max. air pressure)
- 0.025 Cv flow factor
- Coil insulation 266°F
- Orifice size 0.030"



Part No.	Mfr. Part No.	1	5	25
2258401	RLB204KP30B	\$9.95	\$8.95	\$7.95

## Servo Motors & Accessories

- + pulse width 1500µsec. neutral control system
- Operating voltage range: 4.8V to 6V



2128198



395760



358635



395786



2124971

\*Web Code: FVD

### Motors

Part No.	Manufacturer Part No.	Oper. Speed (4.8V@no load)	Stall Torque @ 4.8V (kg.cm)	Direction	Operating Angle	Current Drain (mA, idle/ mA no load)	Dimensions (L" x W" x H")	Pricing	
								1	5
2128198	105*	.12sec/60°	0.6	Clockwise	—	—	0.8 x 0.3 x 0.8	\$6.95	\$6.25
2150416	RS001A	.10sec/60°	1.5	Clockwise	—	—	0.9 x 0.5 x 1.0	6.95	6.25
2213350	SER0006	.12sec/60°	1.6	Clockwise	—	—	0.9 x 0.5 x 1.2	5.95	5.49
2214601	RS001B	.08sec/60°	2.0	Clockwise	—	—	1.3 x 0.5 x 1.1	4.95	4.49
395760	HS-322HD	.19sec/60°	3.0	Clockwise	40°/one side pulse	7.4/160	1.6 x 0.8 x 1.4	13.95	12.95
358635	HS-311	.19sec/60°	3.0	Clockwise	40°/one side pulse	7.4/160	1.5 x 0.8 x 1.1	11.95	10.95
395786	HS-422	.21sec/60°	3.3	Clockwise	45°/one side pulse	8/150	1.6 x 0.8 x 1.4	14.95	13.95
2124980	HS-485HB	.22sec/60°	4.8	Clockwise	45°/one side pulse	8/150	1.6 x 0.8 x 1.5	16.95	14.95
2124971	HS-645MG	.24sec/60°	7.7	Clockwise	45°/one side pulse	8.8/350	1.6 x 0.8 x 1.5	29.95	28.95

\* Manufacturer: Pololu Corp.

### Accessories

Part No.	Description	1	5
2239103	3 color servo wire (red, black, yellow), 22-20, 50'	\$12.95	\$11.95
2171209	Analog sensor cable, 3-pin JST female connector	.95	.75
2177838	12" female-to-female 3-wire servo/sensor cable	1.95	1.75
2213392	11.8" male-to-female straight servo extension cable (blk/red/wht)	1.49	1.25
2143902	24" male-to-female twisted servo extension cable	3.95	3.49



2239103



2171209



## Continuous & 0-180° Rotation Servos

Controlled easily from a BASIC Stamp or SX chip I/O pin using PBASICs or SX/B's PULSOUT commands.

\*Web Code: FVD

- 4-6VDC @ ~190mA

2128201: 2 ball bearings on the output shaft for reduced friction

2110692/283021: Holds position over 180° range; standard servo

283039: Bidirectional continuous rotation and includes an adjustable potentiometer port to center the servo

2128201



Part No.	Mfr.	Mfr. Part No.	Stall Torque @ 6V	Size (L" x W" x H")	Wt. (oz.)	1	5
2201615	ReliaPro	CYS-S3003	38.88 oz.-in	1.6 x 0.8 x 1.5	1.75	\$9.95	\$8.95
2128201	Pololu	1248	66.7 oz.-in	1.7 x 0.8 x 1.6	1.55	12.95	12.49
283021	Parallax	900-00005	43.1 oz.-in	2.2 x 0.8 x 1.6	1.55	12.95	12.49
283039	Parallax	900-00008	47 oz.-in	2.2 x 0.8 x 1.6	1.50	13.95	13.49
2110692	Parallax	900-00014	19.4 oz.-in	0.9 x 0.37 x 0.61	0.31	10.95	10.49



## 12VDC & 24VDC Continuous Push/Pull Solenoids

\*Web Code: MEJ



2231099



262167



142464



2196748



2238127



2201818

Part No.	*Mfr.	Product No.	Type	Volt. (VDC)	Coil Res. (±10%) (Ω)	Power Consump. (W)	Holding Force (lbs. @20°C)	Stroke (in.)	Dimensions Length x Dia. (in.)†	Shaft Dia. (in.)	Wt. (lbs.)	Pricing		
												1	5	25
2231099	LEX	B16-258-B-1	Open frame-pull	3-9.5	6.35	1.43-14.3	0.90	0.15	1.0 x 0.4 x 0.5	0.15	0.03	\$9.95	\$8.95	\$7.95
262167	JRP	SMT-1325L12STD1	Tubular-pull	12	36	4.0	0.11	0.47	1.0 x 0.5	0.20	0.05	14.95	13.49	11.95
142464	JRP	SH-T1130L-12VDC2	Tubular-pull	12	36	4.0	0.63	0.4	1.6 x 0.4	0.15	0.04	12.49	11.49	9.95
2196748	JRP	SH-T2551L	Tubular-pull	12	14.4	10	3.86	0.4	3.1 x 1.0	0.41	0.39	15.95	14.49	12.95
2238127	JRP	WS01632S-12A21	Tubular-push	12	20.7	5.5	0.77	0.6	2.5 x 0.64	0.1	0.10	16.95	14.95	13.49
2201818	JRP	SH-T2551	Tubular-pull	24	60	40	4.0	1.0	3.1 x 0.87	0.43	0.39	16.95	14.95	13.49
1919203	LEX	191172-001	Stroke-push	12	45	7.3	—	0.50	1.0 x 0.5	0.06	0.10	5.95	5.39	4.79
2219330	ADA	412	Open frame-push/pull	24	100	5.8	1.12	0.22	2.1 x 0.67	—	0.09	10.95	9.95	9.49
2219348	ADA	413	Open frame-push/pull	24	43	13.44	3.37	0.53	2.8 x 1.14	—	0.32	19.95	17.95	15.95

† Open frame type dimensions: L" x W" x H" 1 P/N 2182611 (pg 78), 2 P/N 281852 (pg 78) – additional panel mounting hardware available



## 12VDC Solenoid Valve

- 7psi (max. air pressure)
- Dimensions: 1.2"L x 0.92" Dia.
- 0.250" quick disconnect terminals
- Operating volt.: 12VDC
- Current: 350mA
- Oper. temp.: -29°C to 85°C



Part No.	Cross Ref. No.	1	5	25
169835	TAV-0829-R	\$11.95	\$10.95	\$9.95

\*Web Code: MEJ



## 5VDC 2-Way Solenoid Valve

- 5V @ 100mA, 0.5 watt
- Continuous duty cycle
- 15 psi (max. air pressure)
- 0.025 Cv flow factor
- Coil insulation 266°F
- Orifice size 0.030"



Part No.	Mfr. Part No.	1	5	25
2258401	RLB204KP30B	\$9.95	\$8.95	\$7.95

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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## DC Brushless Tubeaxial Fans & Blowers

\*5V Web Code: TAS

\*12V Web Code: LBZ

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695050



2134125



2131944

### mm to Inches Conversion Chart

mm	6	10	15	20	25	28	30	32	35	38	40	45	50	60	70	75	76	80	92	94	95	97	120	125	126	127	150	172
Inches	0.24	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	1.97	2.36	2.76	2.95	2.99	3.15	3.63	3.70	3.74	3.82	4.72	4.92	4.96	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
2134088	Adda	AD2005LX-K70	5	20 x 20 x 6	0.6	Hypro	60	0.3	TUV/CE	12	5.5"	\$10.95	\$9.95	\$8.95	\$7.95
2095277	Adda	AD2005LX-G70	5	20 x 20 x 10	0.6	Hypro	80	0.4	UL/CSA/TUV/CE	20	5.5"	11.95	10.95	9.95	8.95
2131872	Adda	AD0205MX-K53-LF	5	25 x 25 x 6	2.4	Hypro	120	0.6	CE	29	6" <sup>1</sup>	8.95	7.95	6.95	5.95
131247	Adda	AD0205LX-G50-LF	5	25 x 25 x 10	1.8	Hypro	100	0.5	UL/CSA/CE	15.6	5.5"	7.95	6.95	6.25	5.95
2132197	Adda	AD0205MB-G50GL	5	25 x 25 x 10	2.2	Ball	120	0.6	UL/CUL/TUV/CE	23	5.5"	8.95	7.95	6.95	6.25
695050	Sunon	MC25100V2-000-A99	5	25 x 25 x 10	3.0	Vapo	80	0.4	UL/CUL	16	5.5"	9.95	8.95	7.95	6.95
1928311	Adda	AD0305LB-K70	5	30 x 30 x 6	2.5	Ball	70	0.35	UL/CUL/TUV/CE	18.5	6"	4.95	4.49	3.95	3.59
2099497	Adda	AD0305LX-K70(X)	5	30 x 30 x 6	2.5	Hypro	90	0.45	UL/CUL/TUV/CE	20	5.5"	7.95	6.95	6.25	5.59
2188924	Adda	AD0305HX-K70(TX)	5	30 x 30 x 6	3.5	Hypro	180	0.9	UL/CUL/TUV/CE	32	5.5"	6.95	5.95	5.49	4.95
2234695	Sunon	MC30060V1-0000-A99	5	30 x 30 x 6	4.9	Vapo	112	0.56	UL/CUL/TUV	28	6"	9.95	8.95	7.95	6.95
2131899	Adda	AD0305LX-G50(TX)	5	30 x 30 x 10	3.2	Hypro	120	0.6	UL/CUL/TUV/CE	20	5.5"	10.95	9.95	8.95	7.95
2203354	Adda	AB3505LB-QB0†	5	35 x 35 x 7	0.9	Ball	100	0.5	UL/CUL/TUV/CE	19	12"	6.95	5.95	4.95	3.95
2235292	Adda	AP3505LB-J70(S)§	5	35 x 35 x 8	2.5	Ball	90	0.45	UL/CUL/CE	20	5.5"	6.95	6.25	5.59	4.95
2235250	Adda	AB3505LB-GA0†	5	35 x 35 x 10	1.0	Ball	90	0.45	UL/CUL/TUV/CE	23	5.5"	7.95	6.95	6.25	5.59
2167242	Adda	AD0405LB-K90(S)-LF	5	40 x 40 x 7	4.5	Ball/Sleeve	50	0.25	UL/CUL/TUV/CE	19.9	5.4"	7.95	6.95	6.25	5.95
2220200	Adda	AD0405MB-K90	5	40 x 40 x 7	5.2	Ball	90	0.45	UL/CUL/TUV/CE	23.8	5.5"	7.95	6.95	6.25	5.59
2220162	Adda	AD0405HX-J70	5	40 x 40 x 8	4.9	Hypro	80	0.65	CE	35	5.5"	9.95	8.95	7.95	6.95
1928370	Adda	AD0405DB-G70(T)	5	40 x 40 x 10	3.3	Ball	50	0.25	CE	14	12"	7.95	6.95	5.95	4.95
2133886	Adda	AD0405LX-G70	5	40 x 40 x 10	4.7	Hypro	80	0.4	UL/CUL/TUV/CE	21	11"	5.95	5.59	4.95	4.49
2231742	Adda	AD0405LB-G70	5	40 x 40 x 10	4.7	Ball	80	0.4	UL/CUL/TUV/CE	21	11"	5.95	5.59	4.95	4.49
2258814	Adda	AD0405MB-G76	5	40 x 40 x 10	5.0	Ball	110	0.55	UL/CUL/TUV/CE	22	4" w/ conn <sup>1</sup>	2.95	2.59	2.29	1.95
2131928	Adda	AD0405MX-G76-LF	5	40 x 40 x 10	5.7	Hypro	110	0.55	UL/CUL/TUV/CE	15.9	11" <sup>1</sup>	4.95	4.49	3.95	3.49
2220091	Adda	AD0405MX-G70	5	40 x 40 x 10	5.7	Hypro	110	0.55	UL/CUL/TUV/CE	15.9	4"	5.95	5.39	4.79	4.29
1928353	Adda	AD0405HX-G70-LF	5	40 x 40 x 10	6.7	Hypro	190	0.95	UL/CUL/TUV/CE	30	11"	6.95	6.25	5.59	4.95
2229933	Sunon	EE40100S1-0000-999	5	40 x 40 x 10	8.0	Sleeve	271	1.36	UL/CUL/TUV	32	12"	7.95	6.95	6.25	5.95
2132189	Adda	AD0405HB-G70	5	40 x 40 x 10	8.7	Ball	100	0.8	UL/CUL/TUV/CE	25	12" w/ conn	4.95	4.49	3.95	3.49
2230993	Delta	FBK04F05L	5	40 x 40 x 20	3.9	Ball	120	0.6	UL/UR	24	10"	6.95	6.25	5.59	4.95
1928361	Adda	AD0405DS-C50(T1)	5	40 x 40 x 20	4.7	Sleeve	120	0.6	CE	10	11"	6.95	6.25	5.59	4.95
2203371	Adda	AD0405HX-G73	5	40 x 40 x 20	6.2	Hypro	190	0.95	UL/CUL/TUV/CE	25	11" <sup>1</sup>	8.95	7.95	6.95	6.25
2121295	Adda	AD0405HB-C50	5	40 x 40 x 20	8.9	Ball	290	1.45	UL/CUL/TUV/CE	31.9	3" w/ conn	10.95	9.95	8.95	7.95
2233300	Adda	AB4505LX-QA0†	5	45 x 45 x 7	1.5	Hypro	70	0.35	CE	23.3	5"	9.95	8.95	7.95	6.95
2121471	Adda	AB4505MX-QA0†	5	45 x 45 x 7	1.7	Hypro	110	0.55	CE	28	5"	14.95	13.49	11.95	10.95
2235305	Adda	AP4505LX-J90§	5	45 x 45 x 8	4.2	Hypro	70	0.35	UL/CUL/CE	19.5	5"	8.95	7.95	6.95	6.25
2134133	Adda	AP4505HB-J90§	5	45 x 45 x 8	6.0	Hypro	120	0.6	UL/CUL/TUV/CE	31	5"	9.95	8.95	7.95	6.95
2233326	Adda	AB4505MB-GD3†	5	45 x 45 x 10	2.3	Ball	150	0.75	UL/CUL/TUV/CE	31.1	2" <sup>1</sup>	12.95	11.49	9.95	8.95
2233318	Adda	AD4505MX-G70	5	45 x 45 x 10	7.0	Hypro	180	0.9	UL/CUL/TUV/CE	22	12"	9.95	8.95	7.95	6.95
2235284	Adda	AP0505MX-J90-4P§	5	50 x 50 x 8	7.1	Hypro	120	0.6	UL/CUL/CE	25.5	3.5" w/ conn	7.95	6.95	6.25	5.59
2134125	Adda	AP0505HB-J90§	5	50 x 50 x 8	9.5	Ball	140	0.7	UL/CUL/CE	33	5"	3.95	3.49	2.95	2.49
136494	Delta	AFB0505LA	5	50 x 50 x 10	7.4	Ball	120	0.4	UL/CE/CSA/VDE	26	11"	5.95	4.95	3.95	3.49
2121324	Adda	AD0505MB-G76LF	5	50 x 50 x 10	10.5	Ball	180	0.9	UL/CUL/TUV/CE	24	11" <sup>1</sup>	7.95	6.95	5.95	4.95
2150774	Adda	AD0505MB-G70-LF	5	50 x 50 x 10	10.5	Ball	180	0.9	UL/CUL/TUV/CE	24	12"	9.95	8.95	8.49	7.95
2186241	Sunon	KDE0505PFV1.11.MS.AGN	5	50 x 50 x 10	13	Vapo	270	1.4	UL/CUL/VDE	30	16" w/ conn	8.95	7.95	6.95	5.95
2132138	Adda	AD0605HS-D71GL	5	60 x 60 x 15	16.6	Sleeve	370	1.85	UL/CUL/TUV/CE	32.4	5"	12.95	11.49	9.95	8.95
2132120	Adda	AD0605LB-A72GL	5	60 x 60 x 25	13.8	Ball	150	0.75	UL/CUL/TUV/CE	20.3	12" <sup>2</sup>	5.95	5.39	4.79	4.29
2131944	Adda	AD0605HB-A71-LF	5	60 x 60 x 25	23.2	Ball	450	2.25	UL/CUL/TUV/CE	32	11"	6.95	6.25	5.59	4.95
2131952	Adda	AD0605HB-A72GL	5	60 x 60 x 25	24.3	Ball	450	2.25	UL/CUL/TUV/CE	36	12" <sup>2</sup>	6.95	6.25	5.59	4.95
2233211	Adda	AD0805HS-D71	5	80 x 80 x 15	29.9	Sleeve	430	2.15	UL/CUL/TUV/CE	33.4	12"	8.95	7.95	6.95	6.25
2258671	Adda	AD0805HB-D71	5	80 x 80 x 15	29.9	Ball	430	2.1	UL/CUL/TUV/CE	33	12"	10.95	9.95	8.95	7.95
2134299	Adda	AD2012LB-K70	12	20 x 20 x 6	0.6	Ball	60	0.70	CE	19.5	5.5"	14.95	13.49	11.95	10.95
2095269	Adda	AD2012LX-G70(X)	12	20 x 20 x 10	0.6	Hypro	60	0.84	UL/CUL/CE	20	5.5"	7.95	6.95	5.95	4.95
2227655	Adda	AD0212MX-K50	12	25 x 25 x 6	2.4	Hypro	60	0.72	UL/CUL/TUV/CE	29	5.5"	11.95	10.95	9.95	8.95

<sup>1</sup> 3 leads; speed sensor (FG)    <sup>2</sup> 3 leads; alarm (RD)    § DC chip cooler    † Blower    (All fans operate to their specs with or without the additional optional wire functions)

For case mounting screws, P/Ns 2188481 or 2188490, page 78

# DC Brushless Tubeaxial Fans



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## DC Brushless Tubeaxial Fans & Blowers (Continued)



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2233131



2205384



2233166

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
2232198	Adda	AD0212MX-K53	12	25 x 25 x 6	2.4	Hypro	90	1.08	CE	29	5.5" <sup>1</sup>	\$12.95	\$11.49	\$9.95	\$8.95
2232180	Adda	AD0212MB-K50	12	25 x 25 x 6	2.4	Ball	70	0.84	UL/CUL/TUV/CE	26.9	5.5"	14.95	13.49	11.95	10.95
1951641	Adda	AD0212MB-G50GL	12	25 x 25 x 10	2.0	Ball	80	0.4	UL/CUL/TUV/CE	23.1	5" w/ conn	9.95	8.95	7.95	6.95
2179454	Jamicon	KF0210S1H	12	25 x 25 x 10	2.57	Sleeve	120	1.44	UL/TUV/CE	27.4	12"	3.95	3.49	2.95	2.49
2224198	Adda	AD0312LX-K73	12	30 x 30 x 6	2.5	Hypro	60	0.72	UL/CUL/TUV/CE	20	12" <sup>1</sup>	11.95	10.95	9.95	8.95
2133860	Adda	AD0312MB-G50	12	30 x 30 x 10	3.8	Ball	120	0.6	CE	28	5.5"	12.95	11.49	9.95	8.95
2131901	Adda	AD0312HB-G53	12	30 x 30 x 10	4.5	Ball	130	0.55	UL/CUL/TUV/CE	31	12" <sup>1</sup>	14.95	13.49	11.95	10.95
2233131	Adda	AP3512LB-J70(S) <sup>§</sup>	12	35 x 35 x 8	2.5	Ball	60	0.72	UL/CUL/TUV/CE	20	5"	9.95	8.95	7.95	6.95
212741	Sunon	KDE1235PFB2-8	12	35 x 35 x 10	4.5	Ball	60	0.8	UL/CUL/TUV/CE/VDE	21	3" w/ conn	6.95	6.25	5.59	4.95
2179411	Sunon	MF35101V1-10000-A99	12	35 x 35 x 10	7.2	Vapo	60	0.72	UL/CUR/TUV/CE	28	5.5"	11.95	10.95	9.95	8.95
2186224	Delta	FFB03812VHN-F00	12	38 x 38 x 28	20.2	Ball	650	7.8	UL/CSA/VDE/CE	58.5	13" <sup>1</sup>	5.95	4.95	4.49	3.95
2215435	Adda	AD0412HX-K96 (X)	12	40 x 40 x 6	5.4	Hypro	80	0.96	UL/CUL/TUV/CE	30.5	5.5" <sup>1</sup>	8.95	7.95	6.95	6.25
2132162	Adda	AD0412LS-G70(T)	12	40 x 40 x 10	4.7	Sleeve	70	0.84	UL/CUL/TUV/CE	14	12"	4.95	4.49	3.95	3.49
2095314	Adda	AD0412LX-G70	12	40 x 40 x 10	4.7	Hypro	70	0.84	UL/CUL/TUV	14	11"	5.95	5.39	4.79	4.39
2224180	Adda	AD0412LX-G76	12	40 x 40 x 10	4.7	Hypro	70	0.84	UL/CUL/TUV	14	12" <sup>1</sup>	5.95	5.49	4.95	4.49
2132154	Adda	AP0412MX-G70 <sup>§</sup>	12	40 x 40 x 10	4.7	Hypro	80	0.96	CE	28	5.5"	9.95	8.95	7.95	6.95
2232307	Adda	AD0412LB-G71	12	40 x 40 x 10	4.7	Ball	60	0.72	UL/CUL/TUV/CE	21	12"	6.95	6.25	5.59	4.95
2167630	Sunon	HA40101V4-0000-999	12	40 x 40 x 10	5.3	Vapo	65	0.8	UL/TUV/CE	18.2	12"	6.95	6.25	5.59	4.95
2231777	Adda	AD0412HB-G70	12	40 x 40 x 10	6.7	Ball	100	1.2	UL/CE	25	6" w/ conn	8.95	7.95	6.95	6.25
2205384	Adda	AD0412HB-G70(T)	12	40 x 40 x 10	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	12"	9.95	8.95	7.95	6.95
311968	Adda	AD0412HB-G73	12	40 x 40 x 10	6.7	Ball	90	1.08	UL/CUL/TUV/CE	26	12" <sup>1</sup>	9.95	8.95	7.95	6.95
2167234	Sunon	ME40101V1-0000-A99	12	40 x 40 x 10	8.0	Vapo	90	1.08	UL/CUL/TUV	32	12"	9.95	8.95	7.95	6.95
1708473	Sunon	KDE1204PFVX11.MS.A	12	40 x 40 x 10	9.5	Vapo	150	1.8	UL/CUL/TUV	39	12"	8.95	7.95	6.95	6.25
2231793	Adda	AD0412LB-D50	12	40 x 40 x 15	6.8	Ball	80	0.96	UL/TUV/CE	30.3	11"	5.95	4.95	4.49	3.95
2231769	Adda	AD0412HB-D50	12	40 x 40 x 15	9.2	Ball	120	1.4	UL/CUL/CE	39.3	12"	5.95	4.95	4.49	3.95
2228181	Delta	AFB0412LD	12	40 x 40 x 20	4.3	Ball	50	0.6	UL/CE/CSA/TUV	25	13"	3.95	3.59	3.29	2.95
2133835	Adda	AD0412DX-C50	12	40 x 40 x 20	4.7	Hypro	50	0.6	UL/CUL/TUV/CE	10	11"	4.95	4.49	3.95	3.59
2234863	Sunon	MB40201V3-0000-G99	12	40 x 40 x 20	6.3	Vapo	40	0.48	UL/CUL/TUV	18	6" w/ conn <sup>1</sup>	7.95	6.95	6.25	5.95
195899	Sunon	KDE1204PKS2	12	40 x 40 x 20	6.5	Sleeve	70	0.9	UL/CSA/TUV	25.5	12"	4.95	4.49	3.95	3.59
2134176	Adda	AD0412LB-C50	12	40 x 40 x 20	7.0	Ball	70	0.84	UL/CUL/TUV/CE	30	11"	5.95	5.39	4.79	4.29
2151021	Sanyo Denki	109P0412H601	12	40 x 40 x 20	8.0	Ball	110	1.3	UL/CSA	33	7" w/ conn <sup>1</sup>	4.95	4.49	3.95	3.59
2233166	Adda	AD0412MB-C71GP	12	40 x 40 x 20	8.0	Ball	80	0.96	UL/CUL/TUV/CE	28.5	11"	7.95	6.95	6.25	5.59
2133907	Adda	AD0412MB-C50	12	40 x 40 x 20	8.5	Ball	80	0.96	UL/CUL/TUV/CE	28.5	11"	4.95	4.49	3.95	3.49
2220218	Adda	AD0412HB-C50(G)	12	40 x 40 x 20	8.8	Ball	100	1.2	UL/CUL/TUV/CE	36	10" w/conn	6.95	6.25	5.59	4.95
1928118	Adda	AD0412HB-C50	12	40 x 40 x 20	8.8	Ball	110	1.2	UL/CUL/TUV/CE	36	12"	8.95	7.95	6.95	6.25
136178	Adda	AD0412HB-C56	12	40 x 40 x 20	9.0	Ball	100	1.2	UL/CUL/TUV/CE	32	12" <sup>1</sup>	7.95	6.95	6.25	5.59
249375	Adda	AD0412HB-C71GD	12	40 x 40 x 20	9.4	Ball	160	1.1	UL/CUL/TUV/CE	39.3	12"	6.95	6.25	5.59	4.95
2230969	Delta	EFB0412HHD	12	40 x 40 x 20	9.5	Ball	100	1.2	UL/CUL/CSA/TUV	30.5	12"	6.95	6.25	5.59	4.95
2231785	Adda	AD0412HX-C56	12	40 x 40 x 20	9.6	Hypro	110	1.3	UL/TUV/CE	31	11" <sup>1</sup>	7.95	6.95	5.95	5.49
2135380	Adda	AD0412UB-C72GP(P)	12	40 x 40 x 20	10.6	Ball	200	2.4	UL/CUL/TUV/CE	34	12" <sup>2</sup>	9.95	8.95	7.95	6.95
2233924	Sunon	MF40201VX-10000-G99	12	40 x 40 x 20	10.8	Vapo	80	1.06	UL/TUV/CUL	27.5	12" <sup>1</sup>	10.95	9.95	8.95	7.95
2227330	Elina	HDF4020L-12HNB-4	12	40 x 40 x 20	10.9	Ball	165	1.98	UL/CUL/TUV	34	18" w/ conn	7.95	6.95	5.95	4.95
2186232	Delta	FFB0412HN-ST20	12	40 x 40 x 28	10.6	Ball	110	0.84	UL/CSA/TUV	36	3.5" w/ conn <sup>1</sup>	2.95	2.59	2.29	1.95
2082089	Sanyo Denki	109P0412H302	12	40 x 40 x 28	11.3	Ball	195	2.3	UL/CSA/TUV	37	3.75"	4.95	4.49	3.95	3.59
2235356	Adda	AD0412HB-B32-380MM	12	40 x 40 x 28	12.1	Ball	200	2.6	UL/CUL/TUV/CE	38.8	14" w/ conn <sup>2</sup>	6.95	6.25	5.59	4.95
2231751	Adda	AD0412HB-B32	12	40 x 40 x 28	12.1	Ball	220	2.6	UL/CUL	38.8	11" <sup>2</sup>	7.95	6.95	6.25	5.59
2233158	Adda	AD0412HB-B33	12	40 x 40 x 28	12.1	Ball	220	2.64	UL/CUL/TUV/CE	38.8	11" <sup>1</sup>	12.95	11.49	9.95	8.95
2099518	Adda	AD0412UB-B33	12	40 x 40 x 28	16.6	Ball	200	2.4	UL/CUL/TUV/CE	32.8	12" <sup>1</sup>	12.95	11.49	10.49	9.49
2235348	Adda	AD04012UB285300(LAP)	12	40 x 40 x 28	20.7	Ball	60	7.2	UL/CUL/TUV/CE	50.8	12" w/ conn <sup>3</sup>	13.95	12.49	10.95	9.95
2099500	Adda	AD0412VB-B53GP	12	40 x 40 x 28	21	Ball	800	9.6	UL/CUL/TUV/CE	53	12" <sup>1</sup>	14.95	13.49	11.95	10.95
2228800	Delta	GFB0412EMS-D	12	40 x 40 x 56	31.2	Ball	135	15.6	UL/CUL/VDE	64	3" w/ conn	9.95	8.95	7.95	6.95
2233123	Adda	AP4512HX-G90 <sup>§</sup>	12	45 x 45 x 10	6.0	Ball	50	0.6	UL/CUL/CE	30	5"	14.95	13.49	11.95	10.95
2095322	Adda	AD4512MX-G76	12	45 x 45 x 10	6.7	Hypro	70	0.84	UL/CUL/TUV/CE	22	11" <sup>1</sup>	9.95	8.95	7.95	6.95
2232219	Adda	AD4512HX-G70	12	45 x 45 x 10	9.1	Hypro	90	1.08	UL/CUL/TUV/CE	27.4	11"	12.95	11.49	9.95	8.95

<sup>1</sup> 3 leads; speed sensor (FG)    <sup>2</sup> 3 leads; alarm (RD)    <sup>3</sup> 4 leads; PWM & tach (FG) & alarm (RD)    <sup>§</sup> DC chip cooler    (All fans operate to their specs with or without the additional optional wire functions)  
For case mounting screws, P/Ns 2188481 or 2188490, page 78

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# DC Brushless Tubeaxial Fans

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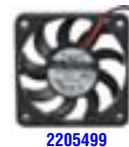


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## DC Brushless Tubeaxial Fans & Blowers (Continued)

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2205499



2210909



2099446

mm to Inches Conversion Chart

mm	6	10	15	20	25	28	30	32	35	38	40	45	50	60	70	75	76	80	92	94	95	97	120	125	126	127	150	172
Inches	0.24	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	1.97	2.36	2.76	2.95	2.99	3.15	3.63	3.70	3.74	3.82	4.72	4.92	4.96	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
2131936	Adda	AD0512LB-G70(T)	12	50 x 50 x 10	8.0	Ball	80	0.96	UL/CUL/TUV/CE	20	12"	\$6.95	\$6.25	\$5.59	\$4.95
2100419	Adda	AD0512HB-G70LF	12	50 x 50 x 10	11.8	Ball	150	1.8	UL/CUL/TUV/CE	26	11"	6.95	6.25	5.95	5.49
2202992	Sunon	ME50101V1-000U-A99	12	50 x 50 x 10	13.8	Vapo	110	1.3	UL/CUL/TUV	31	12"	7.95	6.95	6.25	5.95
2099534	Adda	AD0512HB-D70	12	50 x 50 x 15	14.2	Ball	100	1.3	UL/CUL/TUV/CE	29	5.5"	6.95	6.25	5.59	4.95
2258451	Sunon	KDE1205PHV1	12	50 x 50 x 15	17	Vapo	87	1.0	UL/CUL/TUV/CE	33	12" <sup>1</sup>	6.95	6.25	5.59	4.95
2203004	Sunon	MB50151V1-000U-A99	12	50 x 50 x 15	17	Vapo	87	1.05	UL/CE/TUV/CUL	33	12"	8.95	7.95	6.95	6.25
2133843	Adda	AB5012MB-C03†	12	51 x 51 x 20	4.6	Ball	120	1.44	UL/CUL/TUV/CE	31	12" <sup>1</sup>	13.95	12.49	10.95	9.95
2220082	Adda	AP5212MX-E70(8)\$	12	52 x 52 x 12	10.5	Hypro	80	0.84	UL/CUL/TUV/CE	24	5.5"	17.95	15.95	14.49	12.95
2228261	NMB	2106KL-04W-B39	12	52 x 52 x 15	9.9	Ball	70	0.84	UL/CSA/CE/TUV	21	12" <sup>1</sup>	6.95	6.25	5.59	4.95
2121332	Adda	AD0612LX-G76(T)	12	60 x 60 x 10	10	Hypro	110	1.32	UL/CUL/TUV/CE	26	11" <sup>1</sup>	6.95	6.25	5.59	4.95
2233609	Adda	AD0612LS-G70(T)	12	60 x 60 x 10	11.7	Sleeve	110	1.32	UL/CUL/TUV/CE	23	12"	8.95	7.95	6.95	6.25
144160	Adda	AD0612LB-G76	12	60 x 60 x 10	11.7	Ball	110	1.32	UL/CUL/TUV/CE	23	12" <sup>1</sup>	11.95	10.95	9.95	8.95
2205499	Adda	AD0612HB-G90	12	60 x 60 x 10	14.5	Ball	140	1.6	UL/TUV/CE	32.8	4.5" w/ conn	4.95	4.49	3.95	3.49
2095357	Adda	AD0612HB-G70	12	60 x 60 x 10	14.5	Ball	150	1.8	UL/CUL/TUV/CE	32	11"	7.95	6.95	6.25	5.95
1928126	Adda	AD0612HX-G76(T)	12	60 x 60 x 10	14.5	Hypro	150	1.8	UL/CUL/TUV/CE	32	12" <sup>1</sup>	11.95	10.95	9.95	8.95
1946025	Evercool	EC6010M12CA	12	60 x 60 x 10	15.5	Ball	160	1.9	UL/CE/TUV	30	9" <sup>1</sup>	8.95	7.95	6.95	6.25
2217959	Thermactive	RDM6010B1	12	60 x 60 x 10	15.9	Ball	170	2.04	UL/CUL/TUV/CE	31	12"	6.95	5.95	5.49	4.49
2134205	Adda	AD0612HB-GA6	12	60 x 60 x 10	21	Ball	250	3.0	UL/CUL/TUV/CE	35.8	11" <sup>1</sup>	9.95	8.95	7.95	6.95
2121439	Adda	AD0612DX-D70GL(T)	12	60 x 60 x 15	10.8	Hypro	60	0.72	UL/CUL/TUV/CE	21.3	5.5"	6.95	6.25	5.59	4.95
2210909	Delta	AFB0612LB-TXNS	12	60 x 60 x 15	11.5	Ball	100	0.84	UL/CSA/CE	24	6" w/ conn <sup>2</sup>	5.95	4.95	4.49	3.95
2233174	Adda	AD0612LB-D98	12	60 x 60 x 15	12.6	Ball	90	1.08	UL/CUL/TUV/CE	25.3	5" <sup>4</sup>	14.95	13.49	11.95	10.95
1928046	Adda	AD0612MS-D70GL	12	60 x 60 x 15	14	Sleeve	110	1.32	UL/CUL/TUV/CE	29	5"	5.95	5.39	4.79	4.29
2231814	Adda	AD0612MB-D71GL	12	60 x 60 x 15	14.3	Ball	80	0.9	UL/TUV/CE	28.8	5"	5.95	4.95	4.49	3.95
2167568	Sunon	ME60151V1-0000-A99	12	60 x 60 x 15	25.2	Vapo	160	1.92	UL/TUV/CE	36.2	12"	6.95	5.95	5.49	4.95
144161	Adda	AD0612LB-C70GL	12	60 x 60 x 20	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	12"	5.95	4.95	4.49	3.95
2133982	Adda	AD0612LX-C70GL(T)	12	60 x 60 x 20	13.3	Hypro	80	0.96	UL/CUL/TUV/CE	21.6	12"	6.95	6.25	5.59	4.95
2203389	Adda	AD0612MB-C73GL	12	60 x 60 x 20	14.7	Ball	60	0.72	UL/CUL/TUV/CE	25.2	12" <sup>1</sup>	6.95	6.25	5.59	4.95
2272671	Delta	DFD0612H	12	60 x 60 x 20	17.7	Ball	120	1.44	UL/CUL/TUV/CE	30	11"	5.95	5.39	4.79	4.29
2233051	Adda	AQ0612LB-A70GL *	12	60 x 60 x 25	13.2	Ball	70	0.84	UL/CUL/TUV/CE	18.1	12"	10.95	9.95	8.95	7.95
2227276	YS Tech	NYW060250125BL	12	60 x 60 x 25	15.8	Ball	80	0.96	UL/CUL/TUV	23.5	7" w/ conn	4.95	4.49	3.95	3.59
2162847	NMB	2410ML-04W-B30	12	60 x 60 x 25	19	Ball	117	1.4	UL/CSA/VDE/CE	29	12"	8.95	7.95	6.95	6.25
2205149	Sunon	MB60251V2-000U-G99	12	60 x 60 x 25	19.3	Vapo	74	0.8	UL/CUL/CE/TUV	29	12" <sup>1</sup>	9.95	8.95	7.95	6.95
2217941	Thermactive	RDH6025B-FG	12	60 x 60 x 25	20.3	Ball	140	1.68	UL/CUL/TUV/CE	29	12" <sup>1</sup>	6.95	6.25	5.95	5.49
2230766	Thermactive	RDH6025B	12	60 x 60 x 25	20.3	Ball	140	1.68	UL/CUL/TUV/CE	29	12" <sup>4</sup>	7.95	6.95	5.95	5.49
2228818	Mitsubishi	MMF-06D12DL	12	60 x 60 x 25	21.6	Ball	70	0.84	UL/CSA	23	8" w/ conn	6.95	6.25	5.59	4.95
2233078	Adda	AD0612HB-A70GL4	12	60 x 60 x 25	23	Ball	230	2.76	UL/CUL/TUV/CE	35.2	3" w/ conn	5.95	5.39	4.79	4.29
2150766	Adda	AD0612HB-A72GL	12	60 x 60 x 25	24.8	Ball	230	2.7	UL/CUL/TUV/CE	35.2	12" <sup>2</sup>	7.95	6.95	5.95	4.95
2227719	Adda	AD0612HB-A70GL	12	60 x 60 x 25	24.8	Ball	230	2.76	UL/CUL/TUV/CE	35.2	12"	9.95	8.95	7.95	6.95
2233115	Adda	AQ0612HB-A70GL *	12	60 x 60 x 25	24.8	Ball	160	1.92	CE	35.2	12"	10.95	9.95	8.95	7.95
2133974	Adda	AD0612XB-A72GL(P)	12	60 x 60 x 25	31.7	Ball	280	3.6	UL/CUL/TUV/CE	44	12" <sup>2</sup>	11.95	10.95	9.95	8.95
2158311	Delta	AFB0612EH-BF00	12	60 x 60 x 25	38.3	Ball	480	5.76	UL/CSA/CE	46.5	8" w/ conn <sup>1</sup>	11.95	10.95	9.95	8.95
2233393	Adda	AB6812MX-GC0†	12	68 x 68 x 10	3.4	Hypro	90	1.08	CE	33.6	5"	9.95	8.95	7.95	6.95
2235276	Adda	AD0712LX-DA6	12	70 x 70 x 15	29.2	Hypro	140	1.68	UL/CUL/TUV/CE	34.5	12" <sup>1</sup>	6.95	6.25	5.59	4.95
2232930	Adda	AD0712HS-D73	12	70 x 70 x 15	32.1	Sleeve	190	2.28	UL/CUL/TUV/CE	35.5	12" <sup>1</sup>	6.95	6.25	5.49	4.95
2233203	Adda	AD0712HS-D71	12	70 x 70 x 15	34	Sleeve	270	3.24	UL/CUL/TUV/CE	39.4	5"	7.95	6.95	6.25	5.59
2125561	AVC	DE07015R12U	12	70 x 70 x 15	43	Hydraulic	700	8.4	UL/CE/TUV	46	8" w/ conn	5.95	4.95	3.95	2.95
2227647	JMC	7025-12LS	12	70 x 70 x 25	22	Sleeve	100	1.2	UL/CUL/TUV	24.3	6" w/ conn	6.95	6.25	5.59	4.95
2099446	Adda	AD7512LB (2A)†	12	75 x 75 x 30	6.9	Ball	110	1.32	UL/CUL/TUV/CE	29	15" w/ conn <sup>2</sup>	6.95	6.25	5.59	4.95
2233035	Adda	AD7512MS†	12	75 x 75 x 30	7.8	Sleeve	150	1.8	UL/CUL/CE	34.9	15"	6.95	6.25	5.59	4.95

<sup>1</sup> 3 leads; speed sensor (FG)    <sup>2</sup> 3 leads; alarm (RD)    <sup>4</sup> 4 leads with speed sensor, PWM control

(All fans operate to their specs with or without the additional optional wire functions)

\$ DC chip cooler    \* Waterproof and dust proof    † Blower

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# DC Brushless Tubeaxial Fans



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## DC Brushless Tubeaxial Fans & Blowers (Continued)



★ 12V Web Code: LBZ



2134213



2228172



1928011

Part No.	Manufacturer	Mir. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
2233140	Adda	AD7512HX(3) <sup>†</sup>	12	75 x 75 x 30	10.3	Hypro	240	2.88	UL/CUL/CE	38.5	12" <sup>1</sup>	\$7.95	\$6.95	\$6.25	\$5.59
2192561	Adda	AD0812LB-D70(T)	12	80 x 80 x 15	20	Ball	90	1.08	UL/CSA/TUV/CE	19.6	12"	7.95	6.95	5.95	5.49
2232948	Adda	AD0812MX-D71	12	80 x 80 x 15	22.4	Hypro	150	1.8	UL/CUL/TUV/CE	26	12"	8.95	7.95	6.95	6.25
109081	Adda	AD0812HB-D73(N)	12	80 x 80 x 15	29.9	Ball	190	2.16	UL/CUL/TUV/CE	33.4	12" <sup>1</sup>	9.95	8.95	7.95	6.95
2132007	Adda	AD0812HS-D70-LF	12	80 x 80 x 15	38.6	Sleeve	250	3.0	UL/CSA/TUV/CE	33	12"	5.95	5.49	4.95	4.49
2095365	Adda	AD0812XX-D71	12	80 x 80 x 15	39.4	Hypro	350	4.2	UL/CSA/TUV/CE	42	11"	10.95	9.95	8.95	7.95
2230985	Delta	EF0812DF	12	80 x 80 x 15	49	Ball	330	3.9	UL/CSA/TUV/CE	45	12" <sup>4</sup>	9.95	8.95	7.95	6.95
141921	Adda	AD0812HB-C70	12	80 x 80 x 20	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	10.95	9.95	8.95	7.95
2232112	Adda	AD0812UB-C7B	12	80 x 80 x 20	32.5	Ball	140	1.68	UL/CUL/TUV/CE	37.5	12" <sup>4</sup>	12.95	11.49	9.95	8.95
2228121	NMB	3110GL-B4W-B14	12	80 x 80 x 25	24.7	Ball	100	1.2	UL/CSA/VDE/CE	22	10"	6.95	6.25	5.59	4.95
2228148	Mechatronics	F8025S12B	12	80 x 80 x 25	26	Ball	75	1.2	UL/CSA/TUV	22	10"	6.95	6.25	5.59	4.95
2078194	Adda	AD0812UB-A71GP	12	80 x 80 x 25	26.2	Ball	450	5.4	UL/CUL/TUV/CE	41	12"	8.95	7.95	6.95	5.95
2228113	Nidec	D08A-12TL	12	80 x 80 x 25	27.7	Ball	120	0.7	UL	19	8" w/ conn	6.95	6.25	5.59	4.95
123530	Adda	AD0812MS-A70GL	12	80 x 80 x 25	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	6.95	5.95	4.95	4.59
2234450	Sunon	EE80251B3-0000-G99	12	80 x 80 x 25	33	2 Ball	88	1.1	UL/CUL/TUV/CE	28	12" <sup>1</sup>	8.95	7.95	6.95	6.25
234895	Adda	AD0812HB-A73GL	12	80 x 80 x 25	38.6	Ball	250	3.0	UL/CUL/TUV/CE	34.4	12" <sup>1</sup>	9.95	8.95	7.95	6.95
2135697	Panaflo	FBM-08A12H	12	80 x 80 x 25	39.6	Sleeve	220	2.1	UL/CSA	32	12" w/ conn	3.95	3.49	2.95	2.49
2210984	Sunon	EE80251B1-0000-A99	12	80 x 80 x 25	41	Ball	145	1.7	UL/CUL/TUV/CE	33	12"	7.95	7.49	6.95	6.25
2233220	Adda	AD0812UB-A70GL	12	80 x 80 x 25	48.8	Ball	450	5.4	UL/CUL/TUV/CE	41	12"	9.95	8.95	7.95	6.95
2233238	Adda	AD0812UX-A73GL	12	80 x 80 x 25	48.8	Hypro	450	5.4	UL/CUL/TUV/CE	41	12" <sup>1</sup>	10.95	9.95	8.95	7.95
2081078	Jamicon	JF0825B1UR	12	80 x 80 x 25	52	Dual Ball	370	4.4	UL/CUL/TUV/CE	40	12"	9.95	8.95	7.95	7.49
2210933	Sunon	PF80251V1-0000-A99	12	80 x 80 x 25	60	Vapo	341	4.1	UL/CUL/TUV	46.5	12"	10.95	9.95	8.95	7.95
2209001	Sanyo Denki	9GV0812P4K03	12	80 x 80 x 25	74.8	Ball	870	10.4	UL/CUL/TUV	52	12" <sup>4</sup>	7.95	6.95	6.25	5.95
2228164	EBM Papst	8312	12	80 x 80 x 32	31.8	Ball	220	2.2	UL/CSA/TUV	36	12"	12.95	11.49	9.95	8.95
107406	EBM Papst	8312GHL	12	80 x 80 x 32	39.4	Sleeve	330	4.0	UL/CE/CSA/VDE	43	12"	6.95	5.95	4.95	4.49
2134213	Adda	AD0812MB-Y51	12	80 x 80 x 32	44.6	Ball	160	1.92	UL/CUL/TUV/CE	37	11"	14.95	13.49	11.95	10.95
2230758	Thermactive	RG808038B1	12	80 x 80 x 38	83.4	Ball	850	11.7	UL/CUL/TUV/CE	57	12" <sup>4</sup>	10.95	9.95	8.95	7.95
1928100	Adda	AD0812XB-F71DS	12	80 x 80 x 38	99	Ball	1500	18.0	UL/CSA/TUV/CE	57	12"	9.95	8.95	7.95	6.95
1928097	Adda	AD0912LX-A76GL(T)	12	92 x 92 x 25	32.8	Hypro	130	1.56	UL/CUL/TUV/CE	23.5	12" <sup>1</sup>	9.95	8.95	7.95	6.95
1952783	Nidec	TA350DC-M34138-34	12	92 x 92 x 25	35	Ball	160	1.92	UL/CSA	26.4	10" w/ conn <sup>3</sup>	3.95	3.49	2.95	2.49
2232981	Adda	AD0912LB-A72GL	12	92 x 92 x 25	37.7	Ball	120	1.44	UL/CUL/TUV/CE	29.8	12" <sup>2</sup>	9.95	8.95	7.95	6.95
2233094	Adda	AQ0912LB-A70GL *	12	92 x 92 x 25	40.7	Ball	100	1.2	UL/CUL/TUV/CE	29.2	12"	14.95	13.49	11.95	10.95
1928003	Adda	AD0912MS-A70GL	12	92 x 92 x 25	43	Sleeve	170	2.04	UL/CUL/TUV/CE	31	12"	13.95	12.49	10.95	9.95
154641	Nidec	TA350DC-M33422-16	12	92 x 92 x 25	48	Ball	290	3.5	UL/CSA	35	12"	9.95	8.95	7.95	6.95
2228236	Sunon	1209PTB1-6	12	92 x 92 x 25	49	Ball	170	2.8	UL/CUL/CE/TUV	35	12"	9.95	8.95	7.95	6.95
2193942	Orion	DPF92B012	12	92 x 92 x 25	50	Ball	290	3.48	UL/CUL	33	12"	7.95	6.95	6.25	5.59
1928089	Adda	AD0912HS-A76GL(T)	12	92 x 92 x 25	50	Sleeve	250	3.0	UL/CUL/TUV/CE	33.7	12" <sup>1</sup>	9.95	8.95	7.95	6.95
2228201	Mechatronics	E9225H12B2	12	92 x 92 x 25	51	Ball	360	4.3	UL/CUL/TUV	36	14" <sup>1</sup>	9.95	8.95	7.95	6.95
1928302	Adda	AD0912HS-A70GL	12	92 x 92 x 25	52.5	Sleeve	250	3.0	UL/CUL/TUV/CE	35	12"	9.95	8.95	7.95	6.95
2099796	Adda	AD0912HB-A73GL(N)	12	92 x 92 x 25	52.5	Ball	250	3.0	UL/CUL/TUV/CE	35	12" <sup>1</sup>	9.95	8.95	7.95	6.95
2232972	Adda	AD0912UB-A72GL	12	92 x 92 x 25	57	Ball	390	4.68	UL/CUL/TUV/CE	39.4	12" <sup>2</sup>	10.95	9.95	8.95	7.95
2134248	Adda	AD0912US-A70GL	12	92 x 92 x 25	60	Sleeve	390	4.68	UL/CUL/TUV/CE	39.4	12"	12.95	11.49	9.95	8.95
2234871	Sunon	PMD1209PTB3-A(2).F.GN	12	92 x 92 x 25	65	Ball	300	3.6	UL/CUL/TUV/CE	43	12" <sup>1</sup>	11.95	10.95	9.95	8.95
2172711	Mechatronics	MC9238X12B-FS	12	92 x 92 x 38	80.5	Ball	720	8.6	UL/CUL/TUV	47.5	12"	6.95	5.95	5.49	4.95
174140	Common Wealth	FP108MS3	12	120 x 120 x 25	62	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	8.95	7.95	7.25	6.49
2228156	NMB	4710KL-04W-B19	12	120 x 120 x 25	63.5	Ball	120	1.44	UL/CE/CSA/TUV	27	8" <sup>2</sup>	9.95	8.95	7.95	6.95
2233019	Adda	AD1212LX-A71GL	12	120 x 120 x 25	72	Hypro	240	2.88	UL/CUL/TUV/CE	34.4	12"	9.95	8.95	7.95	6.95
2233246	Adda	AD1212LS-A71GL	12	120 x 120 x 25	72	Sleeve	240	2.88	UL/CUL/TUV/CE	34.4	12"	10.95	9.95	8.95	7.95
2228172	AVC	F1225B12L	12	120 x 120 x 25	75.2	Ball	270	3.24	UL/CSA/CUL	39.5	8" w/conn <sup>2</sup>	9.95	8.95	7.95	6.95
2134053	Adda	AD1212HB-A72GL(N)	12	120 x 120 x 25	85.2	Ball	370	4.44	UL/CUL/CE	39.1	12" <sup>2</sup>	10.95	9.95	8.95	7.95
2134264	Adda	AD1212HX-A71GL(N)	12	120 x 120 x 25	85.2	Hypro	440	5.28	UL/CUL/TUV/CE	39.1	12"	12.95	11.49	10.95	9.95
1928011	Adda	AD2512MS-600MM <sup>†</sup>	12	120 x 120 x 32	23.7	Sleeve	600	7.2	TUV/CE	51.1	24"	8.95	7.95	6.95	6.25

<sup>1</sup> 3 leads; speed sensor (FG) <sup>2</sup> 3 leads; alarm (RD) <sup>3</sup> 4 leads; PWM & tach (FG) & alarm (RD) <sup>4</sup> 4 leads; PWM & speed sensor (FG) (All fans operate to their specs with or without the additional optional wire functions)

\* Waterproof and dust proof <sup>†</sup> Blower

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2233060



2211012



1784644

\* 12V Web Code: LBZ

\* 24V Web Code: QEF

### mm to Inches Conversion Chart

mm	6	10	15	20	25	28	30	32	35	38	40	45	51	60	70	75	76	80	92	94	95	97	120	125	126	127	150	172
Inches	0.24	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.76	2.95	2.99	3.15	3.63	3.70	3.74	3.82	4.72	4.92	4.96	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
2228130	Delta	WFB1212H-BF05	12	120 x 120 x 25	86.5	Ball	360	4.32	UL/CSA/TUV/CE	37.6	13" <sup>1</sup>	\$9.95	\$8.95	\$7.95	\$6.95
2227866	YSTech	FD121225MB	12	120 x 120 x 25	87.8	Ball	290	3.48	UL/CUL/TUV	40.5	12"	12.95	11.95	10.95	9.95
2233060	Adda	AQ1212HB-A71GL *	12	120 x 120 x 25	87.9	Ball	290	3.48	UL/CUL/TUV/CE	39.1	12"	14.95	13.49	11.95	10.95
2170927	Adda	AD1212US-A71GL-LF	12	120 x 120 x 25	98.6	Sleeve	500	6.0	UL/CUL/TUV/CE	43.3	11"	8.95	7.95	7.25	6.49
2235321	Adda	AS12012LB25A100	12	120 x 120 x 25	126	Ball	660	7.92	UL/CUL/TUV/CE	51	12"	10.95	9.95	8.95	7.95
2203346	Adda	AB1212MB-Y01†	12	120 x 120 x 32	28	Sleeve	560	100	UL/CUL/TUV/CE	49	12"	9.95	8.95	7.95	6.95
1928020	Adda	AD1212MB-Y51	12	120 x 120 x 32	99	Ball	260	3.1	UL/CUL/TUV/CE	41	11"	10.95	9.95	8.95	7.95
2233254	Adda	AD1212UB-Y51	12	120 x 120 x 32	130	Ball	580	6.96	UL/CUL/TUV/CE	48.4	12"	19.95	17.95	15.95	13.95
2211012	EBM Papst	4112GX	12	120 x 120 x 38	94	Sleeve	290	3.5	UL/CSA/CE	44	Terminals	9.95	8.95	7.95	6.95
2231697	Nidec	TA450DC-A31276-10A	12	120 x 120 x 38	104	Ball	440	5.2	UL/CUL/TUV/CE	52	Terminals	11.95	10.95	9.95	8.95
2173079	Sunon	EEC0381B2-0000-A99	12	120 x 120 x 38	116	Ball	425	5.1	UL/CUL/TUV/CE	44	12"	14.95	13.95	12.95	11.95
2231478	Adda	AD1212UB-F52	12	120 x 120 x 38	120	Ball	620	7.4	UL/CUL/TUV/CE	48	11" <sup>2</sup>	12.95	11.95	10.95	9.95
2203426	Adda	AD1312UB-F51(CU)	12	127 x 127 x 38	193	Ball	1220	14.6	UL/CUL/CE	56	12"	9.95	8.95	7.95	6.95
2228295	Sanyo	109E1712K502	12	172 x 51	300	Ball	2900	34.8	CSA/UL/TUV	55	12"	29.95	26.95	22.49	19.95
2167605	Adda	AD0424HB-G70-LF	24	40 x 40 x 10	6.2	Ball	90	2.16	UL/CUL/TUV/CE	26	12"	9.95	8.95	7.95	6.95
2133931	Adda	AD0424HB-G73	24	40 x 40 x 10	6.7	Ball	90	2.16	UL/CUL/TUV/CE	25	12" <sup>1</sup>	10.95	9.95	8.95	7.95
2231806	Adda	AD0424LB-C50	24	40 x 40 x 20	7.0	Ball	60	1.4	UL/TUV/CE	25	12"	7.95	6.95	6.25	5.95
2158514	Sunon	MB40202V2-0000-A99	24	40 x 40 x 20	7.7	Vapo	33	2.16	UL/CUL/TUV/CE	21	12"	9.95	8.95	7.95	6.95
2121421	Adda	AD0424MS-C50(T1)	24	40 x 40 x 20	7.7	Sleeve	60	1.4	UL/CUL/TUV/CE	33	12"	9.95	8.95	7.95	6.95
2133940	Adda	AD0424UB-C56	24	40 x 40 x 20	9.6	Ball	90	2.16	CE	37	11" <sup>2</sup>	7.95	6.95	5.95	4.95
2233027	Adda	AD4524HB-G70	24	45 x 45 x 10	7.0	Ball	90	2.16	UL/CUL/TUV/CE	27.4	12"	7.95	6.95	6.25	5.59
2235268	Adda	AD0524HS-G70	24	52 x 52 x 10	11.2	Sleeve	0.9	2.6	UL/CUL/TUV/CE	26	12"	12.95	11.49	9.95	8.95
2233377	Adda	AD0524HB-D71	24	52 x 52 x 15	12	Ball	80	1.92	CE	28.7	12"	12.95	11.49	9.95	8.95
1708422	Sunon	KDE2406PHS3	24	60 x 60 x 15	15	Sleeve	50	1.2	UL/CUL/TUV/CE	31	12"	7.95	6.95	6.25	5.59
2132111	Adda	AD0624HB-D71GL	24	60 x 60 x 15	15.8	Ball	90	2.16	UL/CUL/TUV/CE	33.3	5"	12.95	11.49	9.95	8.95
2188588	Sunon	ME60152V2-0000-A99	24	60 x 60 x 15	21.9	Vapo	85	2.04	UL/CUL/TUV	32.5	12"	8.95	7.95	6.95	6.25
2235313	Adda	AQ0624HB-70GL(T) *	24	60 x 60 x 15	24.5	Ball	120	2.88	UL/CUL/CE	35.2	12"	11.95	10.95	9.95	8.95
2134029	Adda	AD0624MB-C70GL	24	60 x 60 x 20	14.5	Ball	80	1.92	UL/CUL/CE	28	12"	8.95	7.95	6.95	6.25
2233191	Adda	AD0624HX-C70GL	24	60 x 60 x 20	16.3	Hypro	90	2.16	UL/CUL/TUV/CE	31	12"	9.95	8.95	7.95	6.95
2236391	Sunon	MB60202V1-0000-A99	24	60 x 60 x 20	23	Vapo	84	2.09	UL/CUL/TUV/CE	33.5	12" w/ conn	10.95	9.95	8.95	7.95
2232235	Panasonic	ASF62112104	24	60 x 60 x 25	15.5	Ball	70	1.44	CE	22.5	12"	7.95	6.95	6.25	5.59
2231831	Adda	AD0624LB-A70GL	24	60 x 60 x 25	17	Ball	80	1.9	UL/TUV/CE	18.1	12"	6.95	6.25	5.95	5.49
2121391	Adda	AD06024MB257100	24	60 x 60 x 25	17.3	Ball	0.5	1.2	UL/CUL/TUV/CE	27	12"	7.95	6.95	6.25	5.59
224219	Adda	AD0624MS-A70GL	24	60 x 60 x 25	18	Sleeve	80	1.92	UL/CUL/TUV	27	12"	5.95	5.49	4.95	4.49
189861	Jamicon	JF0625B2M-005-065R	24	60 x 60 x 25	19	Ball	130	3.1	UL/TUV/CE	31.3	10"	8.95	7.95	6.95	6.25
2234492	Adda	AD06024HB257002	24	60 x 60 x 25	23.3	Ball	120	2.8	UL/CUL/TUV/CE	33	12"	9.95	8.95	7.95	6.95
2228244	Frilec	2406PTB1	24	60 x 60 x 25	23.5	Ball	60	1.4	UL/CSA/CE	33	12"	6.95	6.25	5.95	5.49
212628	Adda	AD0624UB-A71GL	24	60 x 60 x 25	26.9	Ball	160	3.84	UL/CUL/CE	37.9	13"	7.95	6.95	5.95	5.49
2132058	Adda	AQ0624UB-A71GT(T) *	24	60 x 60 x 25	28.3	Ball	140	3.36	UL/CUL/CE	40	12"	10.95	9.95	8.95	7.95
1784644	Adda	AD7524LB(3)†	24	75 x 75 x 30	6.9	Ball	120	2.88	UL/CUL/TUV/CE	29	12" <sup>1</sup>	6.95	6.25	5.59	4.95
2132066	Adda	AD7524HB†	24	75 x 75 x 30	9.1	Ball	160	3.84	UL/CUL/TUV/CE	38.5	12"	7.95	6.95	6.25	5.59
290029	Jamicon	JF0825B2M	24	80 x 80 x 25	32.5	Dual Ball	130	3.1	UL/CUL/TUV/CE	27.8	10"	9.95	8.95	7.95	6.95
136161	Jamicon	JF0825B2H	24	80 x 80 x 25	38.7	Dual Ball	150	3.6	UL/CSA/TUV	31	10"	9.95	8.95	7.95	6.95
2158565	Sunon	EE8025B21-0000-A99	24	80 x 80 x 25	41	Ball	75	1.8	UL/CUL/TUV/CE	33	12"	9.95	8.95	7.95	6.95
2134150	Adda	AQ0824UB-A71GL *	24	80 x 80 x 25	50	Ball	260	6.24	CE	41	12"	11.95	10.95	9.95	8.95
2234847	Adda	AD0824UB-A73GL(LN)	24	80 x 80 x 25	52.4	Ball	150	3.6	UL/CUL/TUV/CE	40.8	12" <sup>1</sup>	11.95	10.95	9.95	8.95
2211160	IMC Boxer	3113PL05WB30	24	80 x 80 x 32	28	Ball	130	3.1	UL/CUL	31	12"	5.95	5.49	4.95	4.49
2220171	Adda	AD0824UB-Y51	24	80 x 80 x 32	55.3	Ball	180	4.3	UL/CUL/TUV/CE	43.8	12"	9.95	8.95	7.95	6.95
2232964	Adda	AD0824UB-F73DS	24	80 x 80 x 38	88	Ball	440	10.6	UL/CUL/CE/TUV	55	12" <sup>1</sup>	8.95	7.95	6.95	6.25
1951051	Mechatronics	E9225L24B1-FS	24	92 x 92 x 25	35	Ball	85	2.04	UL/CUL	27	12" <sup>1</sup>	4.95	3.95	2.95	2.49
2203071	NMB	3610PL05W-B30	24	92 x 92 x 25	41	Ball	87	2.1	UL	33	11"	5.95	4.95	4.49	3.95
2232999	Adda	AD0924LB-A71GL	24	92 x 92 x 25	41.6	Ball	80	1.92	UL/CUL/CE/TUV	29.8	12"	9.95	8.95	7.95	6.95
2203080	Nidec	TA350DC-A31394-55	24	92 x 92 x 25	42	Ball	140	3.12	UL/CSA	40	3" w/ conn	2.95	2.75	2.49	2.25
2215751	NMB/IMC	3610PL-05W-B20-100	24	92 x 92 x 25	43	Ball	90	2.2	UL/CUL/TUV	39	12"	4.95	4.49	3.95	3.49
2233001	Adda	AD0924MX-A70GL	24	92 x 92 x 25	47.2	Hypro	120	2.9	UL/CUL/CE/TUV	32.7	12"	8.95	7.95	6.95	6.25

<sup>1</sup> 3 leads; speed sensor (FG)    <sup>2</sup> 3 leads; alarm (RD)    \* Waterproof & dust proof    † Blower    (All fans operate to their specs with or without the additional optional wire functions)

For case mounting screws, P/Ns 2188481 or 2188490, page 78



# DC Brushless Tubeaxial Fans, Fan Guards, Filters & Power Cords



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## DC Brushless Tubeaxial Fans & Blowers (Continued)



★ 24V Web Code: QEF

★ 48V Web Code: MAJ



2155065



2218046



2134352

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
2132082	Adda	AD0924HX-A72GL	24	92 x 92 x 25	50	Hypro	150	3.6	UL/CUL/TUV/CE	33.7	12" 2	\$11.95	\$10.95	\$9.95	\$8.95
2155065	Delta	AFB0924H-R00	24	92 x 92 x 25	51.2	Ball	200	4.8	UL/CSA/CE	34	12" 2	8.95	7.95	6.95	5.95
2158303	Sunon	EE9225B1-0000-A99	24	92 x 92 x 25	51.5	Dual Ball	87	2.1	UL/TUV/CE	34	12"	10.95	9.95	8.95	7.95
1928329	Adda	AD0924XB-A71GL	24	92 x 92 x 25	67	Ball	250	6.0	UL/CUL/TUV/CE	42	12"	9.95	8.95	7.95	6.95
2230977	Delta	AFB0924VH	24	92 x 92 x 25	68	Ball	220	5.2	UL/CSA/DE/CE	45	12"	9.95	8.95	7.95	6.95
2228199	Sunon	KDE2412PTB2-6A	24	120 x 120 x 25	80	Ball	230	5.5	UL/CUL/CE/TUV	36.5	12"	11.95	10.95	9.95	8.95
2121527	Adda	AD1224MB-A71GL	24	120 x 120 x 25	80.5	Ball	170	4.08	UL/CUL/TUV/CE	38	12"	11.95	10.95	9.95	8.95
2218046	Adda	AD1224UB-A70GL	24	120 x 120 x 25	99	Ball	250	6.0	UL/CUL/TUV/CE	43.3	11"	12.95	11.95	10.95	9.95
2197556	Coolmax	1225M24B-ZD1	24	120 x 120 x 25	103.8	Dual Ball	300	7.2	UL/TUV	42.5	6" w/ conn	8.95	7.95	6.95	6.25
2235330	Adda	AD12024LB25A100	24	120 x 120 x 25	126	Ball	280	6.72	UL/CUL/TUV/CE	51	12"	13.95	12.49	10.95	9.95
2235399	Sunon	PMB2412PLB2-A2†	24	120 x 120 x 32	40	Ball	380	9.1	UL/CUL/TUV/CE	53.8	11"	20.95	18.95	17.49	15.95
2233334	Adda	AD1224UB-Y51 (IP52)	24	120 x 120 x 32	133	Ball	320	7.68	UL/CUL/TUV/CE	48.4	12"	14.95	13.49	11.95	10.95
2232104	Adda	AD1224UB-Y5B	24	120 x 120 x 32	133	Ball	320	7.68	UL/CUL/TUV/CE	48.4	12" 4	16.95	14.95	13.49	11.95
2134070	Adda	AD1224LB-F52(9TN)	24	120 x 120 x 38	72.3	Ball	140	3.36	UL/CUL/TUV/CE	32.9	12" 2	9.95	8.95	7.95	6.95
2211021	EBM Papst	4124GX	24	120 x 120 x 38	87	Sleeve	138	3.3	UL/CSA/CE	43	Terminals	9.95	8.95	7.95	6.95
694524	Jamicon	JF1238B2MR-R	24	120 x 120 x 38	101.3	Ball	230	5.28	UL/CSA/TUV/CE	39.1	9"	15.95	14.95	13.95	12.49
2134061	Adda	AD1224HS-F51	24	120 x 120 x 38	104.8	Sleeve	500	6.0	UL/CUL/TUV/CE	42.8	10"	10.95	9.95	8.95	7.95
2215478	Conair Rotron	MD24B2	24	120 x 120 x 38	110	Ball	250	6.0	UL/CSA/TUV/CE	50	Terminals	10.95	9.95	8.95	7.95
1809910	Sunon	KD2412PMSX-6A	24	120 x 120 x 38	119	Sleeve	300	7.2	UL/CUL/TUV/CE	45	12"	7.95	6.95	6.25	5.59
2197433	EBM Pabst	4214NHHR	24	120 x 120 x 38	120.7	Ball	313	7.5	UL/CSA/CE	49	12"	9.95	8.95	7.95	6.95
2236404	Sunon	MEC0382V1-0000-A99	24	120 x 120 x 38	138	Vapo	415	10	UL/CUL/TUV/CE	48	12"	12.95	11.95	10.95	9.95
2234919	Adda	AD1324VB-F51	24	127 x 127 x 38	242.1	Ball	1100	26.4	UL/CUL/TUV/CE	64.5	12"	34.95	31.49	27.95	24.95
2135371	Adda	AD0948MB-F91DS(M)	48	92 x 92 x 38	93.5	Dual Ball	160	7.6	CE	48.5	12"	9.95	8.95	7.95	6.95
2203400	Adda	AD1248HB-A71GL	48	120 x 120 x 25	87.8	Ball	100	4.8	UL/CUL/CE/TUV	39.1	12"	10.95	9.95	8.95	7.95
2132023	Adda	AD1248HB-Y51	48	120 x 120 x 32	108	Ball	150	7.20	UL/CUL/TUV/CE	43.3	10"	9.95	8.95	7.95	6.95
2134192	Adda	AD1248UB-Y51	48	120 x 120 x 32	131	Ball	210	10.08	UL/CUL/TUV/CE	48.4	11"	10.95	9.95	8.95	7.95
2231646	Adda	AD1248HB-F5B(N)	48	120 x 120 x 38	105	Ball	180	8.6	UL/CUL/TUV/CE	46.7	11" 4	14.95	13.49	11.95	10.95
2233107	Adda	AD1248UB-F51(FNCU)	48	120 x 120 x 38	120.1	Ball	230	11.04	UL/CUL/CE/TUV	48	12"	9.95	8.95	7.95	6.95
2203418	Adda	AD1248UB-F51	48	120 x 120 x 38	120.1	Ball	230	11.04	UL/CUL/TUV/CE	48	Terminal	10.95	9.95	8.95	7.95
2134352	Adda	AD1348HB-F53	48	127 x 127 x 38	161	Ball	230	11	UL/CUL/TUV/CE	53	11" 1	17.95	15.95	14.49	12.95
1954711	Delta	EFB1348HHE-SV06	48	127 x 127 x 38	168	Ball	360	20	UL/CSA/DE/CE	52	26" 1	19.95	17.95	15.95	14.49

1 3 leads; speed sensor (FG) 2 3 leads; alarm (RD) 4 4 leads; PWM & speed sensor (FG)

(All fans operate to their specs with or without the additional optional wire functions)

† Blower

For case mounting screws, P/Ns 2188481 or 2188490, below

## Fan Guards, Screws & Aluminum Washable Filters

• Guards and filters fit all fans. Please match by size dimension.

P/N 300557 fan (80mm) matches P/N 31924 metal guard (80mm)

2100064

2188481/  
2188490

Fig. 1

Fig. 2

Fig. 3

★ Web Code: UAR

\* Order in multiples of 10

Part No.	mm	Description	Fig.	1	10	50	100
2100064	—	Rubber fan mount (.06" x .01")	—	*	\$ .05	\$ .03	\$ .019
2188481	5x10	Fan frame screw, chrome	—	*	.15	.09	.07
2188490	5x10	Fan frame screw, black anodize	—	*	.15	.10	.08
123502	40	Metal (chrome) guard	1	.59	.55	.49	.45
120038	60	Metal (chrome) guard	1	.65	.59	.55	.49
687666	60	Metal (black anodized) guard	2	.85	.79	.75	.69
31924	80	Metal (chrome) guard	1	.69	.65	.59	.55
1928433	80	Metal (black anodized) guard	2	.79	.69	.65	.59
123511	92	Metal (chrome) guard	1	.75	.69	.65	.59
2135689	92	Metal (black anodized) guard	2	.89	.79	.69	.59
2172877	92	Metal (gold plated) guard	2	.65	.55	.45	.39

Part No.	mm	Description	Fig.	1	10	50	100
25735	120	Metal (chrome) guard	1	\$ .79	\$ .75	\$ .69	\$ .65
695068	120	Metal (black anodized) guard	2	1.09	.99	.89	.79
695076	127	Metal (chrome) guard	1	.79	.69	.59	.49
1952290	80	Plastic guard only	3	.49	.45	.39	.35
1952695	40	Plastic guard w/ mesh	4	1.59	1.49	1.35	1.25
1952708	60	Plastic guard w/ mesh	5	1.65	1.49	1.39	1.29
2158135	80	Plastic guard w/ mesh	4	1.65	1.49	1.39	1.29
138562	80	Plastic guard w/ mesh (clip)	5	1.79	1.69	1.59	1.45
229665	92	Plastic guard w/ mesh	4	1.39	1.29	1.19	1.05
196817	120	Plastic guard w/ mesh	4	2.19	2.09	1.95	1.79
138580	80	Alum. washable filter	6	2.25	1.95	1.79	1.59
130105	120	Alum. washable filter	6	3.49	3.15	2.75	2.49

Fig. 4

Fig. 5

Fig. 6



## DC & AC Plug Fan Power Cords

For Fans with Terminal Connection



★ Web Code: GAE

		Fig. 1 Straight	Fig. 2 45°	Fig. 3 90°
Pigtail Fan Cord (A)	AC Plug Fan Cord (B)			

Part No.	Description	Fig.	Length	1	10	100	250
28564	Straight pigtail fan cord	1A	24"	\$1.49	\$1.25	\$ .99	\$ .89
2076658	Straight pigtail fan cord	1A	36"	1.59	1.45	1.29	1.15
1952548	45° pigtail fan cord	2A	24"	1.59	1.35	1.09	.99
104192	90° pigtail fan cord	3A	24"	1.59	1.35	1.09	.99
1952572	Straight AC plug fan cord	1B	72"	3.95	3.59	3.19	2.49
1952581	45° AC plug fan cord	2B	72"	4.95	4.59	3.95	3.49

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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\*Web Code: ABJ



2126096



2205405



102892



2228287

COMMONWEALTH™ THERMOCOOL

### mm to Inches Conversion Chart

mm	6	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	70	75	76	80	92	94	95	97	120	125	126	127	150	172
Inches	0.24	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.76	2.95	2.99	3.15	3.63	3.70	3.74	3.82	4.72	4.92	4.96	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VAC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection	Pricing			
												1	10	50	100
213867	Fulltech	UF60D11BWH	120	60 x 60 x 30	10.2	Ball	35	4	UL/CUL/VDE/CE	28	12" leads	\$17.95	\$16.49	\$15.95	\$14.49
2231734	ADDA	AA8251HB-AT	120	80 x 80 x 25	21	Ball	70	5.8	UL/CUL/TUV/CE	27	Terminals	12.95	11.95	10.95	9.95
2230660	Thermocool	G8025HAS	120	80 x 80 x 25	23	Sleeve	130	13	UL/CUL/TUV/CE	30	12" leads	10.95	9.95	8.95	7.95
146078	Common Wealth	FP108AX-S1-B	120	80 x 80 x 25	23	Ball	180	14	UL/CE	29	12" leads	15.95	14.49	12.95	11.95
300557	Fulltech	UF80B11SWH	120	80 x 80 x 25	24	Sleeve	140	14	UL/CUL/TUV/CE	35	12" leads	13.95	12.95	11.95	10.95
2133819	Adda	AA8381MS-AT	120	80 x 80 x 38	24	Sleeve	80	9.2	UL/CSA/TUV/CE	26.2	Terminals	13.95	12.49	10.95	9.95
2228279	Mechatronics	UF80A12BWL	120	80 x 80 x 38	25	Ball	110	9	UL/CSA	32	11" leads	14.95	13.49	11.95	10.95
300600	Fulltech	UF80A11BWH	120	80 x 80 x 38	29	Ball	120	12	UL/CUL/TUV/CE	36	12" leads	15.95	14.49	12.95	11.49
300389	Fulltech	UF80A11BTH	120	80 x 80 x 38	30	Ball	120	12	UL/CUL/TUV/CE	36	Terminals	15.95	14.49	12.95	11.49
2126096	Common Wealth	FP-108B**	120	92 x 92 x 25	22	Ball	60	8	UL/CSA	24	15" leads	9.95	8.95	7.95	6.95
2234169	NMB	3610PS-12T-B20	120	92 x 92 x 25	28	Ball	90	6	CSA	35	Terminals	8.95	7.95	6.95	6.25
2230678	Thermocool	G9225HAS	120	92 x 92 x 25	34	Sleeve	140	13	UL/CUL/TUV/CE	40	Terminals	10.95	9.95	8.95	7.95
303467	Sunon	SF11592A-1092HBL.GN	120	92 x 92 x 25	37	Ball	110	12	UL/CSA/TUV/CE	40	12" leads	12.95	11.95	10.95	9.95
2135275	Common Wealth	FP-108JC	120	92 x 92 x 38	45	Sleeve	150	10	UL/CSA/CE	37	12" leads	13.95	12.49	10.95	9.95
2131830	Adda	AA1251MB-AW	120	120 x 120 x 25	65	Ball	240	22.3	UL/CSA/TUV/CE	39	12" leads	15.95	14.49	12.95	11.49
1810048	Sunon	SP101AT-1122HBL.GN	120	120 x 120 x 25	78	Ball	180	18	UL/CUL/TUV/CE	46	12" leads	16.95	15.49	13.95	12.49
124063	Sunon	SP101AT-1122HBT.GN	120	120 x 120 x 25	78	Ball	180	18	CSA/TUV/CE	46	Terminals	16.95	15.49	13.95	12.49
2230379	EBM PABST	4800N	120	120 x 120 x 38	57.1	Sleeve	78	9	UL/CSA/CE	32	Terminals	14.95	13.49	11.95	10.95
303361	Fulltech	UF12A11BTL1	120	120 x 120 x 38	64	Ball	80	15	UL/CUL/TUV/CE	37	Terminals	14.95	13.49	11.95	10.95
2205392	Adda	AA1281MB-AW	120	120 x 120 x 38	80	Ball	140	16.1	UL/CUL/TUV/CE	40	12" leads	12.95	11.49	9.95	8.95
2205405	Adda	AA1281MB-AT(CF)	120	120 x 120 x 38	80	Ball	250	16	UL/CUL/TUV/CE	40	Terminals	13.95	12.49	10.95	9.95
2230694	Thermocool	G12038MAB	120	120 x 120 x 38	85	Ball	220	19	UL/CUL/TUV/CE	44	Terminals	12.95	11.95	10.95	9.95
2231718	Sunon	SP102A-1123MBL.GN	120	120 x 120 x 38	88	Ball	160	15	UL/CUR/TUV/CE	40	12" leads	14.95	13.49	11.95	10.95
2100427	Adda	AA1281HS-AW	120	120 x 120 x 38	91	Sleeve	250	16	UL/CUL/TUV/CE	43	12" leads	11.95	10.95	9.95	8.95
2230686	Thermocool	G12038HAS	120	120 x 120 x 38	95	Sleeve	280	21	UL/CUL/TUV/CE	48	Terminals	11.95	10.95	9.95	8.95
106586	Common Wealth	FP108-1-S1/T	120	120 x 120 x 38	105	Sleeve	180	12	UL/CSA/CE	47	Terminals	12.95	11.95	10.95	9.95
16935	Common Wealth	FP108-1-S1-B/T	120	120 x 120 x 38	105	Ball	200	17	UL/CSA/TUV/CE	47	Terminals	13.95	12.49	11.95	10.49
1707163	Sunon	SP101A-1123HBL.GN	120	120 x 120 x 38	107	Ball	180	18	UL/CSA/TUV	50	12" leads	15.95	14.49	12.95	11.49
2125931	Common Wealth	FP108-1	120	120 x 120 x 38	112	Ball	250	19	UL/CUL/TUV/CE	45	Terminals	13.95	12.49	11.49	9.95
102884	Sunon	SP100A-1123XBT.GN	120	120 x 120 x 38	117	Ball	240	20	UL/CUL/TUV/CE	50	Terminals	14.95	13.95	12.95	11.95
2231726	Sunon	SP100A-1123XBL.GN	120	120 x 120 x 38	117	Ball	240	20	UL/CUR/TUV/CE	50	12" leads	15.95	14.49	12.95	11.95
2230141	Fulltech	UF13A11BTH	120	127 x 127 x 38	120	Ball	160	12	UL/CUL/TUV/CE	50	Terminals	19.95	17.95	15.95	14.49
2230707	Thermocool	G13538HAS	120	135 x 135 x 38	122	Sleeve	340	25	UL/CUL/TUV/CE	53	12" leads	13.95	12.49	11.25	10.49
2230715	Thermocool	G15050HAS	120	150 x 150 x 50	198	Sleeve	400	38	UL/CUL/TUV/CE	59	12" leads	20.95	18.95	16.95	15.49
2230723	Thermocool	G17050HASB	120	172 x 172 x 51	198	Ball	400	38	UL/CUL/TUV/CE	59	Terminals	20.95	18.95	16.95	15.49
189684	Fulltech	UF15PC11BTH	120	172 x 150 x 51	226	Ball	250	30	UL/CUL/TUV/CE	58	Terminals	32.95	29.95	26.49	23.95
212582	Fulltech	UF15PC11BWH	120	172 x 150 x 51	226	Ball	250	30	UL/CUL/TUV/CE	58	12" leads	32.95	29.95	26.49	23.95
2230117	ADDA	AA8252HB-AT	220	80 x 80 x 25	21	Ball	60	13.8	UL/CUL/TUV/CE	27.8	Terminals	12.95	11.95	10.95	9.95
2235241	Adda	AA8382HX-AT	220	80 x 80 x 38	24	Hypro	70	8.8	UL/CUL/TUV/CE	25	Terminals	11.95	10.95	9.95	8.95
355630	Fulltech	UF-80A23-BTH-R	220	80 x 80 x 38	30	Ball	60	12	UL/CSA/VDE/CE	36	Terminals	12.95	11.49	10.25	9.49
100918	Sunon	SF23080A/2083HSL.GN	220	80 x 80 x 38	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	15.95	13.95	12.49	10.95
2210837	EG&G Rotron	SU3G1	220	80 x 80 x 38	32	Sleeve	70	10	UL/CSA	39	12" leads	8.95	7.95	6.95	6.25
2234177	NMB	3115FS-23T-B10-A00	220	80 x 80 x 38	33	Ball	87	6	UL/CSA	36	Terminals	10.95	9.95	8.95	7.95
2234636	NMB	3610FS-23T-B10-A00	220	92 x 92 x 25	28	Ball	50	7	UL/CSA	35	Terminals	12.95	11.95	10.95	9.95
2231566	ADDA	AA1252MB-AT	220	120 x 120 x 25	65	Ball	100	21.6	UL/CUL/TUV/CE	38	Terminals	14.95	13.49	11.95	10.95
2258419	Fulltech	UF12A1223BWH*	120/220	120 x 120 x 38	92/106	Ball	260/120	23	UL/CUL/TUV/CE	42/46	12" leads	15.95	14.49	12.95	11.49
2231996	Adda	AA1282HB-AT	220	120 x 120 x 38	96.1	Ball	130	16	UL/CUL/TUV/CE	42.2	Terminals	13.95	12.49	10.95	9.95
2133801	Adda	AA1282UB-AT	220	120 x 120 x 38	103	Ball	120	21	UL/CUL/TUV/CE	46	Terminals	15.95	14.49	12.95	11.95
303459	Sunon	DP200A-2123XBL.GN	220	120 x 120 x 38	117	Ball	120	21	UL/CSA/TUV/CE	50	12" leads	15.95	14.95	13.95	12.95
102892	Sunon	DP200A-2123XBT.GN	220	120 x 120 x 38	117	Ball	120	21	UL/CSA/TUV/CE	50	Terminals	17.95	15.95	14.49	12.95
2228287	Papst	RER125-19/56	220	138 x 40	61.2	Ball	120	19	UL/CSA/TUV/CE	65	15" leads	39.95	35.95	32.95	29.95
2230424	Commonwealth	FP-108EX (S-1)	220	172 x 150 x 51	210	Ball	220	32	UL/CSA/TUV/CE	50	Terminals	24.95	22.49	19.95	17.95
2265879	Orion	OA172SAP-22-1TB	220	172 x 150 x 51	235	Ball	230	35	UL/CUL	52	Terminals	29.95	26.95	24.49	21.95

\* 4 wire leads, dual voltage \*\* 24 AWG quick disconnect terminals

For case mounting screws, P/Ns 2188481 or 2188490, page 78

# AC-to-AC Wall Adapters



## AC-to-AC Wall Adapters

Input: 120VAC @ 60Hz

\* Web Code: ABQ



We are happy to change any listed wall adapter or table-top power plug to overmolding on a connector of your choice for \$4.00 each. A 100 piece minimum order applies. Please call 1-800-831-4242 for details.



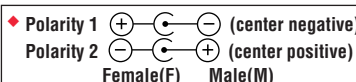
Part No.	Manufacturer	Product No.	Output Rating		Output Connector ID x OD mm Female/Male	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VAC)	Current (mA)							1	10	50	100
2230651	ReliaPro	ABU050050R	5	500	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	Black	6'	0.9	UL/CUL	\$7.95	\$6.95	\$6.25	\$5.95
2236834	ReliaPro	ACU060100R	6	1000	2.1mm x 5.5mm F	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CUL	9.95	8.95	7.95	6.95
2236842	ReliaPro	ADU060200R	6	2000	2.1mm x 5.5mm F	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CUL	10.95	9.95	8.95	7.95
100061	ReliaPro	ACU090050	9	500	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	9.95	8.95	7.95	7.19
102234	ReliaPro	ACU090100	9	1000	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	10.95	9.95	8.95	7.95
157041	ReliaPro	ACU090100E8942	9	1000	2.5mm x 5.5mm F	2.1 x 2.1 x 1.6	Black	6'	0.6	UL/CUL	10.95	9.95	8.95	7.95
2231574	ReliaPro	ACU090100-3.5M	9	1000	3.5mm M	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	6.25
2227444	ReliaPro	ADU090150	9	1500	2.1mm x 5.5mm F	2.9 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	11.95	10.95	9.95	8.95
112336	ReliaPro	ACU090150A2231	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL/CUL	11.95	10.95	9.95	8.95
2234222	Arndt	A35100300	10	300	2.5mm x 5.0mm F	2.4 x 1.7 x 1.6	Black	6'	0.4	UL	6.95	6.25	5.49	4.95
2234185	Arndt	41A-12-500	12	500	2.1mm x 5.5mm F	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	6.95	6.25	5.95	4.95
101258	ReliaPro	ACU120050	12	500	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	9.95	8.95	7.95	6.95
2179614	ReliaPro	ACU120050R	12	500	2.5mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CUL	9.95	8.95	7.95	6.95
2234214	Arndt	AC9084-BK01	12	830	3.5mm M	2.7 x 1.9 x 1.5	Black	10'	0.8	UL/CSA	7.95	6.95	6.25	5.49
10081	ReliaPro	AD-1201000AU1	12	1000	2.1mm x 5.5mm F	2.5 x 2.0 x 1.6	Black	6'	0.7	UL/CUL	10.95	9.95	8.95	7.95
100167	ReliaPro	ACU120100D0531	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CUL	10.95	9.95	8.95	7.95
10428	ReliaPro	ACU120100Z9121	12	1000	3.5mm M	2.6 x 2.4 x 2.0	Black	6'	0.6	UL/CUL	9.95	8.95	7.95	6.95
2167576	Arndt	AM-121200A	12	1200	2.1mm x 5.5mm right angle F	3.2 x 2.1 x 1.9	Black	6'	0.9	UL/CSA	6.95	6.25	5.49	4.95
167151	ReliaPro	ADU120150	12	1500	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	12.95	11.95	10.95	9.95
307838	ReliaPro	ADU120160H4120	12	1600	2.5mm x 5.5mm F	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	13.95	12.95	11.95	10.95
206404	ReliaPro	MGT1220	12	1670	Screw terminals with green LED	3.2 x 2.2 x 1.9	White	—	0.9	UL	10.95	9.95	8.95	7.95
2236455	ReliaPro	A1220NNL#	12	1670	Screw terminals	3.2 x 2.2 x 1.9	White	—	1.0	UL	11.95	10.95	9.95	8.95
2197581	ReliaPro	GPU48120200WA00	12	2000	2.1mm x 5.5mm F	3.3 x 2.6 x 2.2	Black	6'	1.7	UL/CUL	15.95	14.49	12.95	11.49
2227604	ReliaPro	GPU481202000WA0-2.5	12	2000	2.5mm x 5.5mm F	3.3 x 2.6 x 2.2	Black	6'	1.7	UL/CUL	15.95	14.49	12.95	11.49
2197847	Arndt	A71235DC	12	3500	Stripped/tinned (Table-Top style)	3.9 x 2.7 x 2.2	Black	6'	2.1	UL/CSA	9.95	8.95	7.95	6.95
171408	ReliaPro	ACU140050	14	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	9.95	8.95	7.95	6.95
318684	ReliaPro	ACU140085	14	850	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	10.95	9.95	8.95	7.95
100108	ReliaPro	ADU160100	16	1000	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	12.95	11.95	10.95	9.95
2227612	ReliaPro	ADU160100-2.5	16	1000	2.5mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	11.95	10.95	9.95	8.95
2230635	ReliaPro	MGT1640#	16.5	2400	Screw terminals with green LED	3.2 x 2.2 x 1.9	White	—	0.9	UL	12.95	11.95	10.95	9.95
2231591	ReliaPro	ACU180050	18	500	Stripped/tinned	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	6.25
121216	ReliaPro	ADU180100	18	1000	2.1mm x 5.5mm F	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	12.95	11.95	10.95	9.95
2227621	ReliaPro	ADU180100-2.5	18	1000	2.5mm x 5.5mm F	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	11.95	10.95	9.95	8.95
2179622	ReliaPro	AU180200	18	2000	2.1mm x 5.5mm F	3.4 x 2.7 x 2.1	Black	6'	1.7	—	13.95	12.95	11.95	10.95
87581	ReliaPro	ADU240050	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	10.95	9.95	8.95	7.95
2234193	ReliaPro	ADU240050-2.5	24	500	2.5mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95
140599	ReliaPro	ADU240100D5531	24	1000	2.1mm x 5.5mm F	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CUL	12.95	11.95	10.95	9.95
10102	ReliaPro	ADU240100E0461	24	1000	3.5mm M	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CUL	12.95	11.95	10.95	9.95
2100195	ReliaPro	GPU572401500WA00	24	1500	2.1mm x 5.5mm F	3.3 x 2.6 x 2.3	Black	6'	1.7	UL/CUL	15.95	14.49	12.95	11.95
2227639	ReliaPro	GPU572401500WA00-2.5	24	1500	2.5mm x 5.5mm F	3.3 x 2.6 x 2.3	Black	6'	1.7	UL/CUL	15.95	14.49	12.95	11.95
2230627	ReliaPro	MGT2440#	24	1600	Screw terminals with green LED	3.2 x 2.2 x 1.9	White	—	0.9	UL	12.95	11.95	10.95	9.95
2197548	ReliaPro	GPU572402000WA00	24	2000	2.1mm x 5.5mm F	3.3 x 2.6 x 2.2	Black	6'	1.7	UL/CUL	16.95	15.49	13.95	12.49
2229386	ReliaPro	MGT2450P#	24	2100	Screw terminal with green LED	3.2 x 2.2 x 1.9	White	—	0.9	UL	18.95	16.95	15.49	13.95

# Level VI efficiency



## AC-to-DC Regulated Switching Wall Adapters

We are happy to change any listed wall adapter or table-top power plug to overmolding on a connector of your choice for \$4.00 each. A 100 piece minimum order applies. Please call 1-800-831-4242 for details.



\* Web Code: CDZ



Part No.	Manufacturer	Product No.	Output Rating		Output Connector ID x OD mm Female/Male; Polarity ◆	Input VAC @ Hz	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing		
			Volt. (VDC)	Current (mA)								1	10	50
2138636	Emerson	SW013US-0500020US*	5	200	USB type-A F	100-240@50-60	2.3 x 1.8 x 0.9	Black	—	0.2	TUV/FCC	\$2.95	\$2.59	\$2.25
2234097	Phihong	PLA02A-050*	5	400	1.7mm x 3.0mm RA F 2	100-240@50/60	1.9 x 1.3 x 1.0	Black	6'	0.3	UL/CUL	4.95	4.49	3.95
2230408	Phihong	PSM04A-050	5	750	2.1mm x 5.5mm F 2	100-240@50/60	2.7 x 1.8 x 1.0	Black	6'	0.2	UL/CUL	6.95	6.25	5.95
2234601	Arndt	MU05-050100-A1-10	5	1000	2.1mm x 5.5mm F 2	100-240@50/60	2.6 x 1.3 x 1.5	Black	10'	0.2	UL/CUL	5.95	5.49	4.95
2229440	Arndt	TSA1-050120WA*	5	1200	Stripped/tinned	100-240@50/60	2.1 x 1.8 x 1.1	Black	6'	0.2	UL/CUL	6.95	6.25	5.95
2229503	Arndt	YFAF22073001	5	1200	Stripped/tinned	100-240@50-60	3.2 x 1.2 x 1.3	Black	6'	0.2	UL/CUL	6.95	6.25	5.95
2227735	Arndt	EDF0500150A1BA*	5	1500	1.3mm x 3.5mm F 2	100-120@50-60	2.8 x 1.6 x 1.3	Black	6'	0.2	UL/CUL	7.95	6.95	6.25

\* Slimline

Continued on next page

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box



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# AC-to-DC Regulated Switching Wall Adapters

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## AC-to-DC Regulated Switching Wall Adapters (Cont.)



\*Web Code: CDZ

Part No.	Manufacturer	Product No.	Output Rating		Output Connector ID x OD mm Female/Male; Polarity	Input VAC @ Hz	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing		
			Volt. (VDC)	Current (mA)								1	10	50
2209158	CUI Inc	EPAS-101W-05*	5	2000	2.1mm x 5.5mm F 2	100-240@50-60	2.4 x 1.7 x 1.0	Black	6'	0.3	UL/CUL	\$7.95	\$6.95	\$5.95
2188537	CUI Inc	EPAS-101W-05*	5	2000	2.5mm x 5.5mm right angle F 2	100-240@50-60	2.4 x 1.7 x 1.0	Black	6'	0.3	UL/CUL	6.95	6.25	5.95
2244359	ReliaPro	XS-0502100FU#	5	2100	USB type-A (2x)	100-240@50-60	2.0 x 2.0 x 1.1	White	—	0.2	UL/CEC	6.95	6.25	5.59
2217617	Seed Studio	279011001	5	2100	USB type-A F	100-240@50-60	2.3 x 1.6 x 1.3	Black	—	0.2	UL/CUL/FCC	9.95	8.95	7.95
2138724	Jentec	AF1805A*	5	2500	2.1mm x 5.5mm right angle F 2	100-120@50-60	2.4 x 1.9 x 1.1	Black	6'	0.3	UL/CUL/CEC	6.95	5.95	5.49
2225529	MEAN WELL	GST18U05-P1J#	5	3000	2.1mm x 5.5mm F 2	85-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.3	UL/CUL/TUV/CE	11.50	9.49	8.95
2234505	Arndt	BI20-050300-ADU	5	3000	2.5mm x 5.5mm right angle F 2	100-240@50-60	2.8 x 1.8 x 1.3	Black	6'	0.3	UL/CUL	7.95	6.95	6.25
2230361	Arndt	AD013S0530U	5	3000	2.5mm x 5.5mm F 2	100-240@50-60	3.2 x 2.1 x 1.3	Black	4'	0.4	UL/CUL	8.95	7.95	6.95
2135451	Open Peak	LFS054000D-8AS	5	4000	2.1mm x 5.5mm right angle F 2	90-132@47-63	3.3 x 2.0 x 1.5	Black	6'	0.4	UL/CUL/CEC	9.95	8.95	7.95
379623	MEAN WELL	GS25U05-P1J	5	4000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.5	UL/CUL/CEC	11.95	10.95	9.95
2225596	MEAN WELL	GST18U07-P1J#	7.5	2000	2.1mm x 5.5mm F 2	85-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.3	UL/CUL/TUV/CE	11.50	9.49	8.95
2228965	Arndt	CYSC24-090100-P-2.1	9	1000	2.1mm x 5.5mm F 2	100-120@50-60	2.4 x 1.9 x 1.3	Black	6'	0.3	UL/CUL/CEC	8.95	7.95	6.95
2203741	Arndt	CYSC24-090100-P*	9	1000	2.5mm x 5.5mm F 2	100-120@50-60	2.4 x 1.9 x 1.3	Black	6'	0.3	UL/CUL/CEC	8.95	7.95	6.95
2225609	MEAN WELL	GST18U09-P1J#	9	2000	2.1mm x 5.5mm F 2	85-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.3	UL/CUL/TUV/CE	11.50	9.49	8.95
1952847	MEAN WELL	GS18U09-P1J	9	2000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	11.75	10.49	9.75
380140	MEAN WELL	GS25U09-P1J	9	2780	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	13.95	11.49	10.59
2121578	ReliaPro	ST-12500#	12	500	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.3	UL/CUL/CEC	10.95	9.95	8.95
2236463	Arndt	JOD-S-120050A	12	500	2.1mm x 5.5mm F 2	100-240@50-60	2.3 x 1.5 x 1.3	Black	6'	0.15	UL/CUL	5.95	4.95	4.49
2265639	Arndt	PSU-C9*	12	750	2.5mm x 5.5mm F 2	100-240@50-60	2.7 x 1.7 x 1.7	Black	6'	0.3	UL/CUL/CEC	6.95	6.25	5.95
2270847	Arndt	PSU-C9-ELEV6*#	12	750	2.5mm x 5.5mm F 2	100-240@50-60	2.7 x 1.7 x 1.1	Black	6'	0.2	UL/CUL/CEC	7.95	6.95	6.25
2227436	Arndt	DSA-12G-12AU5-12120†*	12	1000	2.1mm x 5.5mm F 2	100-120@50-60	2.7 x 1.6 x 1.1	Black	6'	0.2	UL/CUL/CEC	7.95	6.95	6.25
2230264	Arndt	EN-US12V1000	12	1000	2.1mm x 5.5mm F 2	100-240@50-60	3.3 x 1.7 x 1.2	Black	3'	0.2	CE/FCC	7.95	6.95	6.25
2229765	Arndt	DSY12-120-100W-1	12	1000	2.1mm x 5.5mm F 2	100-240@50-60	2.8 x 1.6 x 1.1	Black	6'	0.3	UL/CUL	8.95	7.95	6.95
1940774	MEAN WELL	GS12U12-P1J	12	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	9.00	7.75	7.49
2231662	ReliaPro	GQ12-120100-AU#	12	1000	2.5mm x 5.5mm F 2	100-240@50-60	2.7 x 1.6 x 1.1	Black	6'	0.3	UL/CUL	10.95	9.95	8.95
2121586	ReliaPro	ST-121A#	12	1000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.3	UL/CUL/CEC	13.95	12.49	11.25
2227410	Arndt	MT18-912050-A1**	12	1500	2.1mm x 5.5mm F 2	100-120@50-60	2.6 x 1.8 x 1.2	Black	6'	0.2	UL/CUL	13.95	12.49	10.95
2209262	Asian Power Devices	WA18G12U	12	1500	2.1mm x 5.5mm F 2	100-240@50-60	3.0 x 1.9 x 1.3	Black	4'	0.3	UL/CUL/CEC	9.95	8.95	7.95
2225537	MEAN WELL	GST18U12-P1J#	12	1500	2.1mm x 5.5mm F 2	85-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.3	UL/CUL/TUV/CE	11.50	9.49	8.95
1952855	MEAN WELL	GS18U12-P1J	12	1500	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.2	UL/CUL/CEC	12.95	11.95	10.95
2225465	MEAN WELL	GSM18U12-P1J**	12	1500	2.1mm x 5.5mm F 2	80-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.3	UL/CUL/TUV/CE	13.10	10.95	10.49
2231671	ReliaPro	G015-120150-AU	12	1500	2.5mm x 5.5mm F 2	100-240@50-60	2.7 x 1.6 x 1.1	Black	6'	0.3	UL/CUL	12.95	11.49	10.95
2234054	Arndt	YSU20120	12	2000	2.1mm x 5.5mm F 2	100-240@50-60	2.7 x 1.7 x 1.2	Black	6'	0.3	UL/CUL	9.95	8.95	7.95
2265655	Arndt	PS12V2000MA-004*	12	2000	2.5mm x 5.5mm F 2	90-240@50-60	2.9 x 1.7 x 1.1	Black	6'	0.3	UL/CUL/CEC	10.95	9.95	8.95
2082134	ReliaPro	ST-122A#	12	2000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.4	UL/CUL/CEC	16.95	15.49	13.95
2225553	MEAN WELL	GST25U12-P1J#	12	2080	2.1mm x 5.5mm F 2	85-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.3	UL/CUL/TUV/CE	11.70	9.75	9.49
380156	MEAN WELL	GS25U12-P1J	12	2080	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.5	UL/CUL/CEC	13.95	12.95	11.49
2215726	Arndt	P03WF-120B*	12	2500	2.1mm x 5.5mm F 2	100-240@50-60	3.0 x 1.4 x 2.0	Black	6'	0.3	UL/CUL/CEC	10.95	9.95	8.95
2173116	ReliaPro	KSAS0361200300HU-6†#	12	3000	2.1mm x 5.5mm F 2	100-240@50-60	3.9 x 1.7 x 1.2	Black	6'	0.6	UL/CUL/CEC	13.49	11.95	11.49
2239189	ReliaPro	KSAS0361200300HU-25†	12	3000	2.5mm x 5.5mm F 2	100-240@50-60	3.9 x 1.7 x 1.2	Black	6'	0.5	UL/CUL/CE	13.95	12.95	11.95
2226043	ReliaPro	ST-123A#	12	3000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.5	UL/CUL	17.95	16.49	14.95
2226038	MEAN WELL	SGA60U12-P15#	12	5000	2.1mm x 5.5mm F 2	90-264@47-63	3.5 x 2.0 x 1.3	Black	6'	0.2	UL/CUL/CB	20.70	17.25	14.95
2196369	MEAN WELL	GSM06U15-P1J**	15	400	2.1mm x 5.5mm F 2	80-264@47-63	2.6 x 1.3 x 1.7	Black	6'	0.3	UL/CUL/TUV/CE	9.50	7.95	7.49
2225617	MEAN WELL	GST18U15-P1J#	15	1200	2.1mm x 5.5mm F 2	85-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.3	UL/CUL/TUV/CE	11.50	9.49	8.95
1952871	MEAN WELL	GS18U15-P1J	15	1200	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.4	Black	6'	0.4	UL/CUL/CEC	13.95	12.49	10.95
2225684	MEAN WELL	GST25U15-P1J#	15	1660	2.1mm x 5.5mm F 2	85-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.3	UL/CUL/TUV/CE	11.70	9.75	9.49
380173	MEAN WELL	GS25U15-P1J	15	1670	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	11.95	9.95	8.95
2225692	MEAN WELL	GST25U18-P1J#	18	1380	2.1mm x 5.5mm F 2	85-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.3	UL/CUL/TUV/CE	11.70	9.75	9.49
380191	MEAN WELL	GS25U18-P1J	18	1380	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 1.2 x 1.3	Black	6'	0.5	UL/CUL/CEC	13.95	12.95	11.49
2225545	MEAN WELL	GST18U24-P1J#	24	750	2.1mm x 5.5mm F 2	85-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.3	UL/CUL/TUV/CE	11.50	9.49	8.95
1952898	MEAN WELL	GS18U24-P1J	24	750	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	12.95	11.95	10.95
2230416	Phihong	PDA024A-1AOS-R	24	1000	2.1mm x 5.5mm F 2	110-120@50-60	3.4 x 2.1 x 1.4	Black	4'	0.3	UL/CUL	10.95	9.95	8.95
2229888	ReliaPro	MTR-08395#	24	1000	2.1mm x 5.5mm F 2	100-240@50-60	3.4 x 2.7 x 2.2	Black	6'	0.5	UL/CUL/CEC	12.95	11.95	10.95
1953671	ReliaPro	MPC-2400107	24	1000	2.5mm x 5.5mm F 2	120-240@50-60	3.4 x 2.7 x 2.2	Black	6'	0.5	UL/CSA	14.95	13.49	11.95
2121594	ReliaPro	ST-241A#	24	1000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.3	UL/CUL/CEC	15.95	14.49	12.95
380202	MEAN WELL	GS25U24-P1J	24	1040	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	13.95	12.95	11.49
2167613	ReliaPro	ST-242A#	24	2000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	6'	0.3	—	15.95	14.95	13.95
380220	MEAN WELL	GS25U28-P1J	28	890	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.6	UL/CUL/CEC	12.95	11.95	10.49
2225705	MEAN WELL	GST25U28-P1J#	28	900	2.1mm x 5.5mm F 2	85-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.3	UL/CUL/TUV/CE	11.70	9.75	9.49

†RFI filter on cord \*Stimline \*\*Medical rated # Level VI efficiency CEC

# AC-to-DC Regulated Wall Adapters



## AC-to-DC "Slimline" Regulated Switching Wall Adapters



Output connector: 2.1mm x 5.5mm F2 (center positive)

• 2-wire AC input • Output cord length: 6' • Color: black • Input voltage: 100 – 240VAC @ 47-63Hz

\* Web Code: CBO



Part No.	Manufacturer	Output Rating		Size (in.) (H x W x D)	Wt. (lbs.)	Pricing			
		Volt (VDC)	Curr. (mA)			1	10	50	100
2173010	Phihong	5	400	1.9x1.4x0.9	0.1	\$4.95	\$4.49	\$3.95	\$3.59
252701	ReliaPro	5	500	2.9x1.1x1.7	0.3	6.95	6.59	6.25	5.95
2126125	OEM	5	800	1.9x1.6x0.9	0.1	6.95	5.95	5.49	4.95
2211098	Phihong	5	1000	2.6x1.4x1.1	0.2	6.95	6.25	5.59	4.95
252720	ReliaPro	5	1000	2.3x1.1x1.7	0.2	8.95	7.95	7.49	6.95
2120090	Arndt	5	1000	2.3x1.3x1.5	0.2	6.49	5.95	5.49	4.49
1940660	MEAN WELL	5	1000	2.6x1.3x1.9	0.2	9.39	7.95	7.49	6.95
2217772	ReliaPro	5	2000	3.0x1.6x1.2	0.2	11.95	10.95	9.95	8.95
2230336	DVE	5	2500	2.7x1.7x1.1	0.3	10.95	9.95	8.95	7.95
2224016	ReliaPro	5	3000	3.3x1.7x1.3	0.2	13.95	12.95	11.95	10.95
2145078	Arndt	6	500	2.5x1.7x1.1	0.3	6.95	5.95	4.95	4.49
2230133	ReliaPro	6	500	2.3x1.6x1.1	0.3	8.95	7.95	6.95	6.25
1940678	MEAN WELL	7.5	800	2.6x1.3x1.9	0.2	9.39	7.95	7.49	6.95
252753	ReliaPro	9	500	2.5x1.1x1.7	0.2	10.95	9.95	8.95	7.95
2236498	ReliaPro	9	500	2.1x1.3x0.94	0.2	8.95	7.95	7.49	6.95
1940686	MEAN WELL	9	660	2.6x1.3x1.9	0.2	9.39	7.95	7.49	6.95
1950841	ReliaPro	9	1000	2.5x1.1x1.7	0.2	10.95	9.95	8.95	7.95
2234100	ReliaPro	9	1000	2.5x1.1x1.7	0.2	10.95	9.95	8.95	7.95

# Level VI efficiency



## Energy Star Worldwide Interchangeable AC-to-DC Regulated Switching Wall Adapters

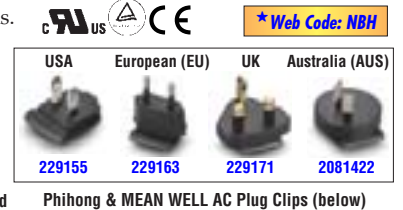
Meets US and European Energy Star compliance. Approved for European high-efficiency power applications.

- Field changeable AC plug clips (sold separately, unless noted)
- Regulated output • Double insulated
- Input voltage: 90-264VAC @ 47-63Hz • Power-on LED
- Output connector: 2.1mm x 5.5mm female center positive; (except where noted, see footnotes \*\*, #, /, ## below)
- Load regulation: ±5% • Class B EMI • 6' black cord
- Applications: wireless communications, portable equipment, digital camera, peripherals and networking



229181

Shown w/o AC Plug Clip  
AC Plug Clips Not Included



229155 229163 229171 2081422

Phihong & MEAN WELL AC Plug Clips (below)

Part No.	Manufacturer	Product No.	Output Volt. (VDC)	Current (A)	Power (W)	Ripple (mVp-p)	Line Regulation	Efficiency (%)	Dimensions (L" x W" x H")	Pricing		
										1	10	50
2202829	Phihong	PSA08R-050-1.3**	5	1.0	5	50	±1%	70	2.8 x 1.8 x 1.0	\$8.95	\$7.95	\$6.95
2202790	Cincon	TR10R050-1*	5	1.6	8	50	±1%	65	2.8 x 1.7 x 1.3	6.95	6.25	5.95
2197812	Cincon	TR10R050 ✓*	5	1.6	8	50	±1%	65	2.8 x 1.7 x 1.3	5.95	5.59	4.79
2158240	Phihong	PSM11R-050 ##	5	2.0	10	100	±5%	70	2.8 x 1.7 x 1.2	5.95	5.39	4.79
2230045	Phihong	PSC12R-090	9	1.11	10	180	±5%	80	2.7 x 1.7 x 1.1	9.95	8.95	7.95
2202896	Phihong	PSA21R-090	9	1.67	15	90	±1%	70	3.9 x 2.3 x 1.2	9.95	8.95	7.95
2082311	MEAN WELL	GE18I09-P1J	9	2.0	18	100	±5%	75	3.2 x 1.7 x 1.6	13.49	11.25	10.49
2227831	Phihong	PLA12R-120†	12	1.0	12	120	±5%	70	2.7 x 2.0 x 1.2	9.95	8.95	7.95
2258689	Phihong	PSAC12R-120-R††	12	1.0	12	120	±5%	80	2.8 x 1.9 x 1.2	15.95	14.49	12.95
2154986	Arndt	FW7550/12*	12	1.25	15	150	±5%	80	3.5 x 2.0 x 1.3	10.95	9.95	8.95
2210693	Asian Power Devices	WA-18H12\$	12	1.5	18	120	±2%	80	3.0 x 1.9 x 1.4	9.95	8.95	7.95
2229239	ENG	3A-181WP12#*	12	1.5	18	120	±2%	80	2.8 x 1.7 x 1.2	11.95	10.95	9.95
228849	Phihong	PSA21R-120	12	1.67	20	120	±1%	70	3.9 x 2.3 x 1.2	12.95	11.49	10.95
2261061	Phihong	PSAA20R-120L6††	12	1.67	20	120	±5%	85	2.8 x 2.0 x 1.3	18.95	16.95	15.49
2227532	DVE	DSA-24CA-12*#	12	2.0	24	120	±2%	80	3.0 x 1.9 x 1.6	14.95	13.49	11.95
228822	Phihong	PSA11R-150	15	.67	10	150	±5%	70	3.4 x 2.0 x 1.3	7.95	6.95	6.25
2082345	MEAN WELL	GE12I24-P1J	24	0.63	15	240	±3%	80	2.8 x 1.6 x 1.5	9.70	8.49	7.49

Input plugs: † Includes US AC plug clip only

\$ Includes US and European plug clips

\* Kit includes US, UK, EU, AUS plugs

†† Level 6 efficiency

Output connectors: \*\* 1.3mm x 3.5mm female plug

# 2.5mm x 5.5mm female plug

✓ 2.5mm x 5.5mm right angle female plug

## Mini USB plug

### Phihong AC Plug Clips (sold separately, required for above adapters)

Part No.	Mfr. P/N	Description (see above for photos)	1	10	50	100
229155	RPA	US AC plug only	\$1.49	\$1.35	\$1.19	\$1.09
229163	RPE	European AC plug only	1.49	1.35	1.19	1.09
229171	RPK	United Kingdom AC plug only	1.95	1.75	1.59	1.35
2081422	RPS	Australia AC plug only	1.95	1.75	1.59	1.35
229181	RPKIT	Kit includes US, EU, UK & AU clips (4)	4.95	4.49	3.95	3.49

Note: Phihong and MEAN WELL clips are not interchangeable

### MEAN WELL AC Plug Clips (sold separately, required for above adapters)

Part No.	Mfr. P/N	Description (see above for photos)	1	10	50	100
2082353	AC-Plug-US	US AC plug only	\$1.25	\$1.15	\$0.99	\$0.89
2082361	AC-Plug-EU	European AC plug only	1.49	1.35	1.19	1.09
2082370	AC-Plug-UK	United Kingdom AC plug only	1.49	1.35	1.19	1.09
2082388	AC-Plug-AU	Australia AC plug only	1.49	1.35	1.19	1.09
2082396	AC-Plug-MIX	Kit includes US, EU, UK & AU clips (4)	4.59	4.19	3.79	3.39

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box



Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

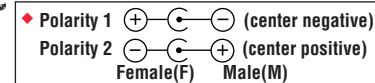
# AC-to-DC Linear Wall Adapters

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## JAMECO ReliaPro AC-to-DC Regulated & Unregulated Linear Wall Adapters

Input: 120VAC @ 60Hz

We are happy to change any listed wall adapter or table-top power plug to overmolding on a connector of your choice for \$4.00 each. A 100 piece minimum order applies. Please call 1-800-831-4242 for details.



Part No.	Manufacturer	Product No.	Output Rating		Output Connector ID x OD mm Female/Male; Polarity ⬠	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing				
			Voltage (VDC)	Current (mA)							1	10	50	100	
Regulated Linear Wall Adapters												*Web Code: WAZ			
1953612	ReliaPro	DDU050100	5	1000	2.1mm x 5.5mm F 2	3.2 x 2.2 x 1.8	Black	6'	1.2	UL/CUL	\$10.95	\$9.95	\$8.95	\$7.95	
168605	ReliaPro	DBU0501000	5	1000	2.5mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CUL	10.95	9.95	8.95	7.95	
2265887	Arndt	41-9-300R	9	300	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95	
1953639	ReliaPro	DCU09050	9	500	2.1mm x 5.5mm F 2	2.4 x 2.0 x 1.6	Black	6'	0.9	UL/CUL	10.95	10.49	9.95	8.95	
1953647	ReliaPro	GPU410900500WDOO	9	500	2.5mm x 5.5mm F 2	3.0 x 2.0 x 1.6	Black	6'	0.9	UL/CUL	10.95	10.49	9.95	8.95	
220898	ReliaPro	DCU120020	12	200	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	8.95	7.95	6.95	6.25	
2236789	Ever Glow	DCU120020	12	200	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CUL	8.95	7.95	6.95	6.25	
162996	ReliaPro	DDU120050	12	500	2.1mm x 5.5mm F 2	3.2 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	11.95	10.95	9.95	8.95	
170245	ReliaPro	DDU120100	12	1000	2.1mm x 5.5mm F 2	3.2 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	14.95	13.49	11.95	10.95	
1953663	ReliaPro	DCU1201000	12	1000	2.5mm x 5.5mm F 2	3.3 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	14.95	13.49	11.95	10.95	
249244	ReliaPro	DFU120150/G9760	12	1500	2.1mm x 5.5mm F 2	3.1 x 2.6 x 2.2	Black	6'	1.6	UL/CUL	15.95	14.49	12.95	11.49	
174861	ReliaPro	DFU240050	24	500	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	14.95	13.49	11.95	10.95	
174879	ReliaPro	DCU090025	24	500	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	14.95	13.49	11.95	10.95	
Unregulated Linear Wall Adapters												*Web Code: UAP			
2231443	Arndt	950-00143	5	800	2.5mm x 5.5mm F 2	3.0 x 2.2 x 1.8	Black	6'	0.9	UL/CSA	\$6.95	\$6.25	\$5.59	\$4.95	
2179745	DVE	DV-6100-3508	6	100	2.1mm x 5.5mm F 1	2.4 x 1.5 x 1.0	Black	6'	0.3	UL/CUL	2.95	2.59	2.29	1.95	
101266	ReliaPro	DBU060050E3860	6	500	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CUL	6.95	6.25	5.59	4.95	
2234741	ReliaPro	DBU060050-2.5	6	500	2.5mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CUL	7.95	6.95	6.25	5.95	
2234610	Arndt	H00AAA	6	600	2.1mm x 5.5mm F 1	2.4 x 2.1 x 1.5	Black	6'	0.5	UL/CSA	7.95	6.95	5.95	4.95	
147707	ReliaPro	DBU060080C6962	6	800	2.1mm x 5.5mm F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	5.95	
1953719	ReliaPro	DCU060100-S0070	6	1000	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	6.25	
220943	ReliaPro	DCU060120G2401	6	1200	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	9.95	8.95	7.95	6.95	
2229271	OEM	AD0780	7.5	800	2.5mm x 5.5mm F 2	2.3 x 2.3 x 1.8	Black	6'	0.8	UL/CSA	8.95	7.95	6.95	6.25	
2215460	Fujitsu	MA14L-2001-0012	9	200	1.3mm x 3.5mm right angle F 2	2.4 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.95	3.95	3.49	2.95	
2234628	Arndt	DV-9200	9	200	2.1mm x 5.5mm F 1	2.1 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	5.95	5.49	4.95	4.95	
100845	ReliaPro	DBU090020E0850	9	200	2.1mm x 5.5mm F 2	2.1 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	6.95	5.95	5.49	4.59	
133891	ReliaPro	DBU090030-C1110	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CUL	6.95	5.95	5.49	4.95	
2230432	Arndt	35-9-300C	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6	0.4	UL/CUL	5.95	5.49	4.49	3.95	
189238	ReliaPro	DBU090030H4540	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	6.95	5.95	4.95	4.49	
163628	ReliaPro	DCU090050-Z7483	9	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	7.95	6.95	6.25	5.95	
100853	ReliaPro	DCU090050-Z7480	9	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	7.95	6.95	6.25	5.95	
236937	ReliaPro	DCU090050G6440	9	500	2.5mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CUL	7.95	6.95	6.25	5.95	
15561	ReliaPro	DCU090050A2011	9	500	3.5mm M 2	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	7.95	6.95	6.25	5.95	
202180	ReliaPro	DCU090060F2091	9	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	7.95	6.95	6.25	5.95	
100175	ReliaPro	DCU090060Z6652	9	600	2.5mm x 5.5mm F 2	2.7 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	7.95	6.95	6.25	5.95	
164929	ReliaPro	DDU090100C2550	9	1000	2.1mm x 5.5mm F 1	2.7 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95	
364576	ReliaPro	DDU090100J0490	9	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95	
2227428	Arndt	MT12-Y090100-A1	9	1000	2.5mm x 5.5mm F 2	2.6 x 1.5 x 1.3	Black	6'	0.2	UL/CUL	8.95	7.95	6.95	6.25	
2229280	OEM	AD091AL	9	1000	2.5mm x 5.5mm F 2	2.9 x 2.1 x 1.9	Black	6'	0.9	UL/CUL	7.95	6.95	6.25	5.49	
127505	ReliaPro	DDU090100-N1600	9	1000	2.5mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95	
100095	ReliaPro	DBU120020-B1850	12	200	2.1mm x 5.5mm F 2	2.1 x 1.8 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.49	4.95	4.49	
158043	ReliaPro	DBU120020E2261	12	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.49	4.95	4.49	
2167226	Arndt	4292A	12	200	2.5mm x 5.5mm F 2	2.3 x 2.1 x 1.6	Black	6'	0.5	UL/CSA	4.95	4.49	3.95	3.59	
2231689	Arndt	41-12-300	12	300	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.6	Black	6'	0.5	UL/CSA	5.95	5.49	4.95	4.49	
127976	ReliaPro	DCU120030-D1762	12	300	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.6	Black	6'	0.7	UL/CUL	7.95	6.95	6.25	5.95	
2227743	Arndt	MW41-1230⚡	12	300	2.1mm x 5.5mm F 1/F 2	2.6 x 1.8 x 1.6	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	6.25	
2230301	Arndt	RAD-1200400C	12	400	2.1mm x 5.5mm F 2	2.9 x 1.9 x 1.6	Black	6'	0.7	UL/CUL	7.95	6.95	6.25	5.49	
114825	ReliaPro	DCU120050D4740	12	500	Stripped/tinned	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	7.95	6.95	6.25	5.95	
2227840	DVE	DV-1250	12	500	2.1mm x 5.5mm F 2	2.3 x 1.9 x 1.6	Black	12'	0.6	UL/CSA	6.95	5.95	5.49	4.95	
2227858	Arndt	L4D-120050R	12	500	2.1mm x 5.5mm F 2	2.3 x 1.9 x 1.6	Black	6'	0.6	UL/CUL	5.95	5.39	4.79	4.29	
2228893	CUI	DPD120050-P5	12	500	2.1mm x 5.5mm F 2	2.3 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	6.95	5.95	5.49	4.95	
2229781	CUI	91-54909	12	500	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	6.95	6.25	5.95	4.95	
15368	ReliaPro	DCU120050-Z8693	12	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CUL	7.95	6.95	6.25	5.95	
102496	ReliaPro	DCU120050E8601	12	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CUL	7.95	6.95	6.25	5.95	
102277	ReliaPro	DCU120050U-Z8694	12	500	2.5mm x 5.5mm F 2	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CUL	7.95	6.95	6.25	5.95	

§ Reversible polarity (±)

More AC-to-DC Wall Adapters listed on pages 91-93 & 95



# AC-to-DC Wall Adapters & Table-Top Power Supplies



JAMECO ReliaPro

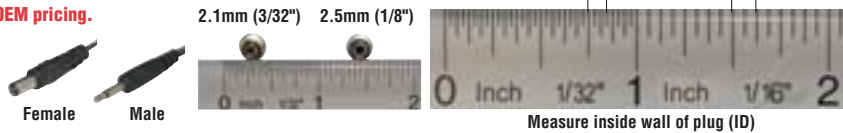
## AC-to-DC Unregulated Linear Wall Adapters (Continued)

2.1mm (3/32") 2.5mm (2/16") 1/8"

\*Web Code: UAP

Input: 120VAC @ 60Hz Call for Additional OEM pricing.

♦ Polarity 1  (center negative)  
Polarity 2  (center positive)  
Female(F) Male(M)



Part No.	Manufacturer	Product No.	Output Rating		Output Connector ID x OD mm Female/Male; Polarity ♦	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
117479	ReliaPro	DDU120080E6451	12	800	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	\$8.95	\$7.95	\$6.95	\$6.25
2217799	Arndt	AD-1280G†	12	800	2.5mm x 5.5mm F 2 (medical grade)	3.2 x 2.2 x 1.9	Black	12'	1.3	UL/CUL	4.95	4.49	3.95	3.59
2158160	Arndt	GPU481200800WD00	12	800	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	6.95	5.95	5.49	4.95
129331	ReliaPro	DDU120080-F2411	12	800	2.5mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	8.95	7.95	6.95	6.25
121232	ReliaPro	DDU120080F2271	12	800	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95
1215742	Arndt	T012LF1209**	12	1000	2.1mm x 5.5mm F 2	3.0 x 1.6 x 1.4	Black	6'	0.2	UL/CUL/CEC	6.95	5.95	5.49	4.49
2215734	Arndt	MT12-Y120100-A1**	12	1000	2.1mm x 5.5mm F 2	2.7 x 1.5 x 1.3	Black	6'	0.2	UL/CUL/CEC	6.95	5.95	5.49	4.49
100870	ReliaPro	DDU120100-Z7972	12	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	7.29
2211135	Fellows	A-48-628(R2)	12	1000	2.5mm x 5.5mm right angle F 2	3.1 x 2.2 x 1.9	Black	6'	1.1	UL/CUL	5.95	5.49	4.95	4.49
2197770	Westell	MT12-4120100-A1**	12	1000	2.5mm x 5.5mm F 2	2.9 x 1.6 x 1.2	Black	6'	0.2	UL/CEC	7.95	6.95	6.25	5.59
105478	ReliaPro	DDU120100-Z2992	12	1000	2.5mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
15392	ReliaPro	DDU120100E7302	12	1000	3.5mm M 2	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
196779	ReliaPro	DDU120120-G0030	12	1200	2.5mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
2192747	Arndt	MW48-1201250	12	1250	2.1mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	1.4	UL/CUL	6.95	6.25	5.59	4.95
203036	ReliaPro	DDU120150H4530	12	1500	2.1mm x 5.5mm F 1	3.3 x 2.2 x 1.9	Black	6'	1.5	UL/CUL	12.95	11.49	9.95	8.95
136881	ReliaPro	DDU120150K1960	12	1500	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	12.95	11.49	9.95	8.95
101291	ReliaPro	DDU120150	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	12.95	11.49	9.95	8.95
2218003	ReliaPro	DFU120200R	12	2000	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	14.95	13.49	11.95	10.95
2224008	ReliaPro	DFU120200R	12	2000	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	14.95	13.49	11.95	10.95
308099	ReliaPro	DDU135100H3210	13.5	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
123932	ReliaPro	DDU140070Z7470	14	700	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CUL	8.95	7.95	6.95	6.25
190001	ReliaPro	DCU150050E3021	15	500	2.1mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CUL	7.95	6.95	6.25	5.95
189982	ReliaPro	DCU150050E3031	15	500	2.5mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CUL	8.95	7.95	7.29	6.49
191652	ReliaPro	DDU150100D7051	15	1000	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
2081713	DVE	DV-1790	17	900	2.5mm x 5.5mm F 2	3.2 x 2.2 x 2.0	Black	6'	1.2	UL/CSA	6.95	6.25	5.59	4.95
2205261	ReliaPro	DDU180100H4550	18	1000	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	10.95	9.95	8.95	7.95
206958	ReliaPro	DDU180100H4551	18	1000	2.5mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	10.95	9.95	8.95	7.95
2228017	Arndt	WP572018DG†	18	1100	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.4	UL/CUL	9.95	8.95	7.95	6.95
102285	ReliaPro	DDU240040Z7860	24	400	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	8.95	7.95	6.95	6.25
2192510	ReliaPro	DDU240050RS1160	24	500	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.95	7.95	6.95	6.25
191556	ReliaPro	DDU240050E5852	24	500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
139088	ReliaPro	DDU240050E9160	24	500	3.5mm M 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.95	7.95	6.95	5.95
168495	ReliaPro	DFU240080J3180	24	800	2.1mm x 5.5mm F 2	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	11.95	10.95	9.95	8.95
220960	ReliaPro	DFU240100G2300	24	1000	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	12.95	11.95	10.95	9.95
199523	ReliaPro	DDU300050E9340	30	500	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	10.95	9.95	8.95	7.95
2167621	Seven Star	SS104*	1.5, 3, 4.5, 6, 7.5, 9, 12	500	0.7x2.3, 1.5x4, 2.1x5, 2.5x5.5 Female 2.5, 3.5 Male (LED indicator)	3.3 x 2.0 x 1.9	Black	6'	0.8	—	4.95	3.95	3.49	2.95
123158	Steren	900-100*	1.5, 3, 4.5, 6, 7.5, 9, 12	1000	1.3x3.5, 2.1x5, 2.5x5.5 Female 2.5, 3.5 Male, 9V battery snap (LED ind.)	3.7 x 2.2 x 2.5	Black	6'	0.9	—	11.95	10.95	9.95	8.95

\*110/220VAC input voltage \*\*Slimline †3 prong ground

## GlobTek® AC-to-DC Medical Table-Top Regulated Switching Power Supplies

\*Web Code: WBM

- 2.5mm x 5.5mm female center positive
- Input voltage: 90-264VAC @ 47-63Hz
- Leakage current: 0.1mA max.
- Regulation (line & load): ±5% • 3-wire AC input
- Isolation voltage: 4,000VAC • Size: 2.9"L x 2.0"W x 1.6"H
- Ripple & noise: 1% or 100mV, whichever is smaller
- Cord lengths: DC: 6'; AC: not included use P/N 132011, pg 102



Part No.	Mfr. Part No.	Power (W)	Output VDC/Amps	Pricing		
				1	10	50
230683	TR9CE1250CP	15.0	+12/1.25	\$34.95	\$29.95	\$24.95
230798	TR9CI2100LCP	50.4	+24/2.1	49.95	44.95	39.95

\*Interchangeable Power Supplies, Adapters and Tips — Enter Web Code N8H

## Accessory Power Input Cords for Table-Top Power Supplies

\*Web Code: UBF



Part No.	Ref. No. *	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	1	10	50	100
189587	1	2-conductor power cord (Figure 8 style)	Black	18/2	UL/CSA	6'	0.3	SPT	\$2.95	\$2.69	\$2.39	\$2.19
1953559	3	3-conductor flat power cord (Mickey Mouse™ style)**	Black	18/3	UL/CSA	6'	0.4	SPT-2	2.95	2.59	2.29	1.95
1951123	3	3-conductor round power cord (Mickey Mouse™ style)**	Black	18/3	UL/CSA	6'	0.4	SVT	2.95	2.75	2.59	2.25
38050	2	3-conductor power cord	Black	18/3	UL/CSA	6'	0.4	SVT	4.95	4.49	3.95	3.59

\*These reference numbers for "AC cord needed" for Table-Top Power Supplies on pages 96-97

\*\*Ref #3 chose flat or round cable

More Power Cords on page 102

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# AC-to-DC Switching Table-Top Power Supplies

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

Jameco carries the full line of MEAN WELL Power products. For additional products visit [www.jameco.com/meanwellproducts](http://www.jameco.com/meanwellproducts)



## AC-to-DC Unregulated Linear & Regulated Switching Table-Top Power Supplies

We are happy to change any listed wall adapter or table-top power plug to overmolding on a connector of your choice for \$4.00 each. A 100 piece minimum order applies. Please call 1-800-831-4242 for details.



♦ Polarity 1  $\oplus \text{---} \ominus$  (center negative)  
Polarity 2  $\ominus \text{---} \oplus$  (center positive)

See page 101 for International Power Cords

Part No.	Manufacturer	Product No.	Output Rating	Output Connector	Input	Output Power (W)	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing	
			Volts (VDC)/ Current (A)	ID x OD/F = female; M = male; Polarity ⬆								VAC@Hz	1
2-Wire AC Input – Unregulated Linear Table-Top												* Web Code: TBE	
2231451	ENG	3A-122DU12	+12/1	2.1mm x 5.5mm F 2	100-120@50/60	12	No	2.9 x 1.8 x 1.0	6/2'	0.3	UL/CUL	\$9.95	\$8.95
140880	ReliaPro	DC1215ST	+12/1.5	Stripped/tinned	120@60	18	No	3.1 x 2.1 x 1.9	6/6'	1.5	UL	11.95	10.95
2234484	ReliaPro	EDU120150RA222	12/1.5	2.5mm x 5.5mm F 2	120@60	18	No	3.1 x 2.1 x 1.9	6/6'	1.4	—	12.95	11.95
143722	ReliaPro	DC1220F5	+12/2.0	2.5mm x 5.5mm F 2	120@60	24	No	3.8 x 2.8 x 2.3	6/6'	2.2	UL/CUL	15.95	14.49
2197898	Arndt	MKD66123400	+12/3.4	5-pin DIN M	120@60	40	No	5.1 x 3.6 x 2.6	6/6'	3.0	UL/CUL	9.95	8.95
2099569	Arndt	57-1607-U4D	+16/0.7	2.5mm x 5.5mm F 2	120@60	19	No	3.6 x 2.7 x 3.6	6/6'	1.3	UL	4.95	4.49
139096	ReliaPro	EHU240120	+24/1.2	2.1mm x 5.5mm F 2	120@60	29	No	4.4 x 3.1 x 2.6	6/6'	2.5	—	13.95	12.95
2197572	ReliaPro	EHU240200	+24/2.0	2.1mm x 5.5mm F 2	120@60	48	No	4.4 x 3.1 x 2.6	6/6'	2.5	—	14.95	13.49
2-Wire AC Input – Regulated Switching Table-Top – Single Output												* Web Code: TTZ	
2179577	Delta	ADP-12GB	+5/2.5	2.5mm x 5.5mm F 2	100-240@50-60	12	No	3.4 x 2.2 x 1.2	6/6'	0.5	UL/CUL	\$5.95	\$5.39
2202870	Arndt	EADP-20NB	+5/4.0	2.1mm x 5.5mm F 2	100-120@50-60	20	No	4.4 x 2.1 x 1.3	6/4'	0.7	UL/CUL/CEC	9.95	8.95
2202626	Arndt	PS-2.1-5-4DAC⬆	+5/4.0	2.1mm x 5.5mm F 2	100-120@50-60	20	No	4.4 x 2.1 x 1.3	6/6'	0.7	UL/CUL/CEC	9.95	8.95
2203848	Arndt	G32DD-050400-A⬆	+5/4.0	2.1mm x 5.5mm F 2	100-120@50-60	20	No	4.0 x 2.2 x 1.3	6/6'	0.8	UL/CUL	11.95	10.95
2203821	Arndt	AD8048	+5/4.0	2.5mm x 5.5mm F 2	100-240@50-60	20	No	4.7 x 2.3 x 1.2	6/6'	0.8	UL/CUL	10.95	9.95
2234249	Arndt	FY0506000	+5/6	2.5mm x 5.5mm F 2	100-240@50/60	30	No	4.6 x 2.0 x 1.2	4/6'	0.7	UL/CUL/TUV/CE	13.95	12.95
2231435	Arndt	094-0224-000	+9/1.1	2.1mm x 5.5mm F 2	100-240@50/60	10	No	3.3 x 2.2 x 1.0	6/1'	0.4	UL/CUL/TUV/CE	9.95	8.95
2227381	Delta	EADP-24MB	+12/2.0	2.5mm x 5.5mm F 2	100-240@50-60	24	No	4.5 x 1.9 x 1.2	6/1'	0.4	UL/CUL	10.95	9.95
2188570	Arndt	MPGS-U0241202000D2	+12/2.0	2.5mm x 5.5mm F 2	100-240@50-60	24	No	4.2 x 1.7 x 1.2	6/6'	0.5	UL/CUL/FCC	10.95	9.95
2224075	Arndt	HK-HA-U12-LH⬆	+12/2.5	2.1mm x 5.5mm F 2	100-120@50-60	30	Yes	4.3 x 1.7 x 1.2	6/6'	0.8	UL/CUL/CEC	9.95	8.95
2236754	Arndt	PS-2.1-12-3-DC-S1	12/3.0	2.1mm x 5.5mm F 2	100-120@50/60	36	No	4.4 x 2.1 x 1.3	6/6'	0.8	UL/CUL	10.95	9.95
2227401	Arndt	ADA017	+12/3.0	2.1mm x 5.5mm F 2	100-240@50-60	36	No	5.1 x 2.2 x 1.2	6/1'	0.6	UL/CUL	10.95	9.95
2230168	Arndt	EADP-36FB	+12/3.0	2.1mm x 5.5mm F 2	100-240@50-60	36	No	5.3 x 2.4 x 1.4	3/1'	0.6	UL/CUL	10.95	9.95
2167445	ReliaPro	K36V120300E2	+12/3.0	2.1mm x 5.5mm F 2	100-240@50-60	36	No	3.6 x 1.6 x 1.1	5/1'	0.4	UL/CUL/CE/CSA	14.95	13.49
2205456	Arndt	AD7212A	+12/5.0	2.1mm x 5.5mm F 2	100-240@50-60	60	Yes	4.2 x 2.4 x 1.2	7/1'	0.7	UL/CUL/TUV/CE	12.95	11.95
2214230	MEAN WELL🟢	GSM60B12-PIJ	+12/5.0	2.1mm x 5.5mm F 2	80-264@47-63	60	Yes	4.9 x 2.0 x 1.2	3/1'	0.7	UL/CUL/TUV/CE	20.70	17.35
1940547	MEAN WELL🟢	GS25B24-P1J	+24/1.04	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	3.1 x 2.1 x 1.3	6/1'	0.5	UL/CUL/TUV/CE	13.95	12.95
1707139	MEAN WELL🟢	ES25B48-P1J	+48/0.52	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	3.1 x 2.1 x 1.3	6/1'	0.4	UL/CUL/TUV/CE	10.95	9.95
* 3-9V Web Code: TTF			3-Wire AC Input – Regulated Switching Table-Top – Single Output									* 12-14V Web Code: TTW	
196218	GlobTek	GT-21089-1305T3	+5/2.0	2.1mm x 5.5mm F 2	120-240@50-60	10	No	3.4 x 1.9 x 1.3	6/2'	0.4	UL/CUL/TUV/CE	\$17.95	\$15.95
2235760	GlobTek	GT-21089-1305	+5/2.6	2.1mm x 5.5mm F 2	100-240@50-60	13	No	3.4 x 1.8 x 1.2	6/2'	0.5	UL/CUL/CE	11.95	10.95
2227815	GlobTek	TR9CA2000LLP-YD*★	+5/2.6	2.5mm x 5.5mm F 2	100-240@50-60	13	No	3.4 x 1.8 x 1.2	6/2'	0.5	UL/CUL/CE	12.95	11.95
1940387	MEAN WELL🟢	GS18A05-P1J	+5/3.0	2.1mm x 5.5mm F 2	90-264@47-63	15	Yes	3.7 x 2.1 x 1.4	4/2'	0.5	UL/CUL/TUV/CE	12.95	11.95
1940571	MEAN WELL🟢	GS25A05-P1J	+5/4.0	2.1mm x 5.5mm F 2	90-264@47-63	20	Yes	3.7 x 2.1 x 1.4	4/2'	0.5	UL/CUL/TUV/CE	13.95	12.95
2227807	Sceptre Power	PS5050AP-LO5	+5/5.0	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	4.1 x 2.6 x 1.4	6/6'	1.1	UL/CUL/CE	15.95	14.49
1952337	MEAN WELL🟢	GS40A05-P1J	+5/5.0	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	4.9 x 2.0 x 1.2	4/2'	0.7	UL/CUL/TUV/CE	15.95	14.95
2224059	Sparkle Power	AD025DGA1-J25	+5/5.0	2.5mm x 5.5mm F 2	90-264@47-63	25	Yes	4.3 x 2.0 x 1.2	4/2'	0.7	UL/CUL/TUV/CE	14.95	13.49
2224358	MEAN WELL	GST60A05	+5/6.0	2.1mm x 5.5mm F 2	90-264@47-63	30	Yes	4.9 x 1.9 x 1.2	3/2'	0.4	UL/CUL/TUV/CE	16.20	13.49
2144956	ReliaPro	GQ65-060330-EI	+6/3.3	2.1mm x 5.5mm F 2	90-264@47-63	20	No	3.6 x 2.0 x 1.3	6/3'	0.3	UL/TUV/CE	12.95	11.49
2173036	Phihong	PSA18U-090	+9/2.0	2.1mm x 5.5mm F 2	90-264@47-63	18	No	3.9 x 2.2 x 1.2	5/2'	0.5	UL/CUL/TUV/CE	9.95	8.95
1940408	MEAN WELL🟢	GS18A09-P1J	+9/2.0	2.1mm x 5.5mm F 2	90-264@47-63	18	Yes	3.7 x 2.1 x 1.4	6/2'	0.6	UL/CUL/TUV/CE	12.95	11.95
1954244	MEAN WELL🟢	GS15A-3P1J	+12/1.25	2.1mm x 5.5mm F 2	90-264@47-63	15	No	3.9 x 2.3 x 1.3	6/2'	0.4	UL/CUL/TUV/CE	14.20	11.89
2227823	Globtek	TR9CE1250-LCP-7	+12/1.25	2.5mm x 5.5mm F 2	100-240@50-60	15	No	3.4 x 1.8 x 1.2	6/2'	0.5	UL/CUL/CE	15.95	14.49
2229491	DVE	DSA-0151D-12-2.1	+12/1.5	2.1mm x 5.5mm F 2	100-125@50-60	18	No	3.9 x 1.9 x 1.3	6/2'	0.4	UL/CSA/TUV/CE	11.95	10.95
2229482	DVE	DSA-0151D-12-2.5	+12/1.5	2.5mm x 5.5mm F 2	100-125@50-60	18	No	3.9 x 1.9 x 1.3	6/2'	0.4	UL/CSA/TUV/CE	11.95	10.95
1940416	MEAN WELL🟢	GS18A12-P1JU	+12/1.5	2.1mm x 5.5mm F 2	90-264@47-63	18	Yes	3.7 x 2.1 x 1.4	6/6'	0.5	UL/CUL/TUV/CE	14.49	12.95
1940601	MEAN WELL🟢	GS25A12-P1JU	+12/2.08	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	3.7 x 2.1 x 1.4	4/6'	0.5	UL/CUL/TUV/CE	12.95	11.95
2197927	ReliaPro🟢	DZ036DL120300G	+12/3.0	2.1mm x 5.5mm F 2	100-240@50-60	36	No	4.3 x 1.9 x 1.3	6/2'	0.5	UL/CUL/CE	12.95	11.95
2234329	ReliaPro	DZ036DL120300G-2.5	+12/3.0	2.5mm x 5.5mm F 2	100-240@50/60	36	No	4.3 x 1.9 x 1.3	6/2'	0.5	UL/CUL/CE	13.95	12.49
2230387	Arndt	LSE0107A1240	+12/3.33	2.5mm x 5.5mm F 2	100-240@50-60	40	Yes	4.5 x 2.0 x 1.2	4/2'	0.5	UL/CUL/TUV/CE	11.95	10.95
2224307	MEAN WELL	GST40A12-P1J#	+12/3.34	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 1.2 x 2.0	3.3/2'	0.6	UL/CUL/TUV/CE	14.60	12.19

\* See accessory table-top power cord chart on page 95 when AC cord needed; refer to 1, 2 or 3 in "Cords (DC/AC)" column above for correct power cord

\*\* Locking connector # Level VI efficiency CEC

† Attached cord

Continued on next page

# AC-to-DC Regulated Switching Table-Top Power Supplies








**AC-to-DC Regulated Switching Table-Top Power Supplies**

[See page 101 for International Power Cords](#)

We are happy to change any listed wall adapter or table-top power plug to overmolding on a connector of your choice for \$4.00 each. A 100 piece minimum order applies. Please call 1-800-831-4242 for details.



**♦ Polarity 1**  (center negative)  
**Polarity 2**  (center positive)



Part No.	Manufacturer	Product No.	Output Volts (VDC)/ Current (A)	Output Connector ID x OD/F = female; M = male; Polarity	Input VAC@Hz	Output Power (W)	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing	
												1	10
* 12-14V Web Code: TTV			* 15-24V Web Code: TTR			3-Wire AC Input – Regulated Switching Table-Top – Single Output (Continued)						* 27-54V Web Code: TTT	
1952345	MEAN WELL	GS40A12-P1J	+12/3.34	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.3	4'/2	0.7	UL/CUL/TUV/CE	\$17.95	\$16.49
2079357	MEAN WELL	GS40A12-P1M	+12/3.34	2.5mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.3	4'/2	0.7	UL/CUL/TUV/CE	16.95	15.49
2234661	ReliaPro	MP65-120350-E11	12/3.5	2.1mm x 5.5mm F 2	100-240 @ 50/60	42	Yes	4.7 x 2.1 x 1.2	4'/2	0.6	UL/CUL/CE/GS	13.95	12.59
2265599	Globtek	TRCE4000LCP-Y	12/4.17	2.5mm x 5.5mm F 2	100-240@50/60	50	No	4.6 x 2.4 x 1.4	6'/2	0.6	UL/CUL/TUV/CE	14.95	13.49
2208956	ReliaPro	KPL-060F#	+12/5/0	2.1mm x 5.5mm F 2	100-240@50-60	60	Yes	4.5 x 2.0 x 1.2	4'/2	0.9	UL/CUL/TUV/CE	15.95	14.49
2224382	MEAN WELL	GST60A12-P1J#	+12/5/0	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.2	3.3'/2	0.7	†† (See below)	16.20	13.49
1952370	MEAN WELL	GS60A12-P1J	+12/5/0	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 1.9 x 1.2	4'/2	0.7	UL/CUL/TUV/CE	20.95	18.95
2218151	Net Gear	AD8180LF	+12/5/0	2.5mm x 5.5mm F 2	100-240@50-60	60	No	4.6 x 2.4 x 1.4	6'/2	0.6	UL/CUL/CE	15.95	14.49
2236543	Lite-On	PA-1600-2A-LF	12/5/0	2.5mm x 5.5mm F 2	100-240 @ 50/60	60	No	5.9 x 2.1 x 1.6	6'/2	0.9	UL/CUL/TUV/CE	16.95	15.49
2236447	Seasonic	SSA-0601D-12	12/5/0	2.5mm x 5.5mm F 2	100-240 @ 50/60	60	Yes	4.5 x 1.8 x 1.4	3.3'/2	0.6	UL/CUL/TUV/CE	17.95	15.95
2230230	Arndt	RX-SP-5012-6	+12/6/0	2.1mm x 5.5mm F 2	100-240@50-60	72	Yes	4.7 x 2.3 x 1.4	4'/4'	0.6	CE/FCC	17.95	15.95
2223460	MEAN WELL	GST90A12-P1M#	+12/6.67	2.5mm x 5.5mm F 2	90-264@47-63	80	Yes	5.7 x 2.4 x 1.3	3.3'/2	1.4	†† (See below)	26.60	22.19
2078291	MEAN WELL	GS90A12-P1M	+12/6.67	2.5mm x 5.5mm F 2	90-264@47-63	80	Yes	5.7 x 2.3 x 1.3	4'/2	0.9	UL/CUL/TUV/CE	31.95	28.95
2129211	MEAN WELL	GS120A12-R7B	+12/8.5	4-pin DIN M	85-264@47-63	102	Yes	6.6 x 2.6 x 1.4	4'/2	1.4	UL/CUL/TUV/CE	38.95	37.25
2229950	EDAC Power	EA11011H(33)#	+12/10	4-pin DIN M	100-240@50-60	120	Yes	5.4 x 2.3 x 1.3	4'/2	1.0	UL/CUL/CE/CEC	49.95	45.95
2099294	MEAN WELL	GS220A12-R7B	+12/15	4-pin DIN M	90-264/127-370@47-63	180	Yes	8.3 x 3.4 x 1.8	3.3'/2	1.0	UL/CUL/TUV/CE	73.95	64.49
1940619	MEAN WELL	GS25A15-P1J	+15/1.66	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	3.7 x 2.1 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	12.95	11.95
2171559	MEAN WELL	GS40A15-P1JU	+15/2.67	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.2	3.3'/6'	0.6	UL/CUL/TUV/CE	16.95	15.49
2224391	MEAN WELL	GST60A15-P1J#	+15/4.0	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 X 2.0 X 1.3	3.3'/2	0.7	ULCUL/TUV/CB/CE/CCO/FC	16.20	13.49
1954295	MEAN WELL	GS60A15-P1J	+15/4/0	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.2	4'/2	0.7	UL/CUL/TUV/CE	20.95	18.95
2078320	MEAN WELL	GS90A15-P1M	+15/6/0	2.5mm x 5.5mm F 2	90-264@47-63	90	Yes	5.7 x 2.3 x 1.3	3'3'/2	0.8	UL/CUL/TUV/CE	28.95	25.95
2154951	MEAN WELL	GS60A18-P1JU	+18/3.33	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.2	6'/6'	0.8	UL/CUL/TUV/CE	18.95	16.95
2224331	MEAN WELL	GST40A24-P1J#	+24/1.67	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 X 2.0 X 1.2	6'/2	0.6	ULCUL/TUV/CB/CE/CCO/FC	14.60	12.19
2223494	MEAN WELL	GST90A24-P1M#	+24/1.67	2.5mm x 5.5mm F 2	90-264@47-63	40.1	Yes	5.7 x 2.4 x 1.3	3.9'/2	0.9	ULCUL/TUV/CB/CE/CCO/FC	26.60	22.19
1940635	MEAN WELL	GS25A24-P1JU	+24/1.04	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	3.7 x 2.1 x 1.4	6'/6'	0.5	UL/CUL/TUV/CE	12.95	11.95
2197919	ReliaPro	DZ036DL240150G	+24/1.5	2.1mm x 5.5mm F 2	100-240@50-60	36	No	4.3 x 1.9 x 1.3	6'/2	0.5	UL/CUL/CE	11.95	10.95
1952353	MEAN WELL	GS40A24-P1J	+24/1.67	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.2	6'/2	0.7	UL/CUL/TUV/CE	17.95	16.49
2229984	ReliaPro	KPL-060M-2.1-VI#	+24/2/5	2.1mm x 5.5mm F 2	100-240@50-60	60	Yes	4.5 x 2.0 x 1.2	4'/2	0.9	UL/CUL/TUV/CE	14.95	13.95
2224411	MEAN WELL	GST60A24-P1J#	+24/2/5	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 1.2 x 2.0	6'/2	0.7	UL/CUL/TUV/CE	16.20	13.49
1952214	MEAN WELL	GS60A24-P1J	+24/2/5	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.3	6'/2	0.7	UL/CUL/TUV/CE	20.95	18.95
2229992	ReliaPro	KPL-060M-2.5-VI#	+24/2/5	2.5mm x 5.5mm F 2	100-240@50-60	60	Yes	4.8 x 2.4 x 1.4	4'/2	0.9	UL/CUL/TUV/CE	17.95	16.49
2078338	MEAN WELL	GS90A24-P1M	+24/3.75	2.5mm x 5.5mm F 2	90-264@47-63	90	Yes	5.9 x 2.3 x 1.2	4'/2	0.9	UL/CUL/TUV/CE	28.95	25.95
2208892	MEAN WELL	GS120A24-HQU\$	+24/5/0	2.5mm x 5.5mm F 2	90-264@47-63	120	Yes	6.6 x 2.6 x 1.4	4'/2	1.4	UL/CUL/TUV/CE	32.95	29.95
2223646	MEAN WELL	GST120A24-P1M#	+24/5/0	2.5mm x 5.5mm F 2	85-264@47-63	120	Yes	6.6 x 2.7 x 1.4	3.9'/2	1.4	ULCUL/TUV/CB/CE/CCO/FC	38.90	38.89
2135208	MEAN WELL	GS120A24-P1M	+24/5/0	2.5mm x 5.5mm F 2	85-264@47-63	120	Yes	6.6 x 2.6 x 1.4	4'/2	1.4	UL/CUL/TUV/CE	39.95	35.95
2223611	MEAN WELL	GST120A24-R7B#	+24/5/0	4-pin DIN M	85-264@47-63	120	Yes	6.6 x 2.7 x 1.4	3.9'/2	1.4	ULCUL/TUV/CB/CE/CCO/FC	38.90	38.89
2122212	MEAN WELL	GS160A24-R7B	+24/6.67	4-pin DIN M	85-264@47-63	160	Yes	6.9 x 2.8 x 1.4	4'/2	1.5	UL/CUL/TUV/CE	51.95	45.95
2226505	MEAN WELL	GST220A24-R7B#	+24/9/2	4-pin DIN M	85-264@47-63	220.8	Yes	8.3 x 3.4 x 1.8	3.3'/2	2.2	ULCUL/TUV/CB/CE/CCO/FC	66.60	55.89
2099286	MEAN WELL	GS220A24-R7B	+24/9/2	4-pin DIN M	90-264@47-63	220	Yes	8.3 x 3.4 x 1.8	3.3'/2	2.4	UL/CUL/TUV/CE	79.95	73.95
2202562	Phihong	PSA18U-480	+48/0.38	2.5mm x 5.5mm F 2†	100-240@50-60	18	No	3.9 x 2.1 x 1.2	6'/2	0.5	UL/CUL/CE	4.95	4.49
2228931	FSP	FSP025-1AD207A	+48/0.52	2.5mm x 5.5mm F 2	100-240@50-60	25	No	3.3 x 2.0 x 1.3	6'/2	0.4	UL/CUL/CE	9.95	8.95
1952396	MEAN WELL	GS60A48-P1JU	+48/1.25	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.2	6'/6'	0.7	UL/CUL/TUV/CE	18.95	16.95
3-Wire AC Input – Regulated Switching Table-Top – Double & Triple Output												* Web Code: TTN	
196270	ReliaPro	PSU25A13	+5/2.5, +12/1.0	4-pin mini DIN M	100-240@47-63	25	No	4.2 x 2.6 x 1.4	6'/6'	1.2	UL/CUL/TUV/CE	\$31.95	\$28.95
2230740	ReliaPro	GPSN25A-13#	+5/2.5, +12/1.5	4-pin mini DIN M	100-240@50-60	30	No	4.2 x 2.6 x 1.4	6'/6'	1.2	UL/CUL/TUV/CE	34.95	31.49
2229511	Ault	SC200	+5/4.0, +12/1.0	5-pin DIN M	100-240@50-60	32	No	5.0 x 3.0 x 1.6	6'/2	1.2	UL/CSA/CE/TUV	19.95	17.95
221720	MEAN WELL	P25A14E-R1BU	+5/2.5, +15/0.3 +15/0.3	5-pin DIN M	90-264@47-63	25	Yes	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	33.95	30.95
190960	MEAN WELL	P25A13D-R1B	+5/2.5, +12/0.8 +12/0.3	5-pin DIN M	90-264@47-63	26	Yes	4.1 x 2.6 x 1.4	6'/2	1.1	CUL/TUV/CE	32.95	29.95
237367	MEAN WELL	P50A14E-R1B	+5/4.0, +15/1.5 +15/0.5	5-pin DIN M	90-264@47-63	42	Yes	5.8 x 3.0 x 1.7	4'/2	1.2	UL/CUL/TUV/CE	54.95	49.95
2217844	Arndt	T40-9312A	+5/5.0, +12/1.2 +12/0.3	6-pin DIN M	90-264@47-63	43	No	6.0 x 3.3 x 1.9	4'/2	1.2	UL/CUL/TUV/CE	19.95	17.95
221702	MEAN WELL	P50A13D-R1BU	+5/4.0, +12/2.0 +12/0.5	5-pin DIN M	90-264@47-63	50	Yes	5.7 x 3.0 x 1.7	4'/6'	1.5	UL/CUL/TUV/CE	49.95	44.95
2250951	MEAN WELL	GP50A13D-R1B#	+5/4.0, +12/2.0 +12/0.5	5-pin DIN M	90-264@47-63	50	Yes	5.7 x 3.0 x 1.7	4'/2	1.5	UL/CUL/TUV/CE	39.60	33.65

\* See accessory table-top power cord chart on page 95 when AC cord needed; refer to 1, 2 or 3 in "Cords (DC/AC)" column above for correct power cord

† Right angle †† UL/CUL/TUV/BSMI/CCC/FCC/CE \$ HQU = C Tick Austria approval # Level VI efficiency CEC

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Power Jacks, Plugs & Adapters

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JAMECO  
ValuePro

## Switchcraft® Male & Female Power Jacks

\*Web Code: BAM

Part No.	Mfr.	Product No.	Description Pin Dia. x OD	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	1	10	100
101194	ValuePro	PP024	1.3 x 3.5mm male	6.0 x 6.0 x 9.0	1/D	1/B	.99	.85	.69
2202909	Arndt	163-0310	1.7 x 4.8mm male	41 x 10.3 Dia.	6/F	3/A	.79	.69	.59
2235823	Kobiconn	163-4118	1.7 x 4.8mm male	12 x 10 Dia.	8/C	4/A	.99	.85	.69
101179	ValuePro	PP014	2.1 x 5.5mm male	10.9 x 9.0 x 14.3	2/D	1/A	.59	.55	.49
101178	ValuePro	PP014G	2.1 x 5.5mm male	10.9 x 9.0 x 14.3	2/E	1/A	.69	.59	.45
137673	ValuePro	PP013	2.1 x 5.5mm male	10.9 x 9.0 x 14.5	3/D	4/A	.65	.55	.39
151590	ValuePro	DPJ-02IA	2.1 x 5.5mm male	18.0 x 12.6 Dia.	4/C	1/A	1.49	1.25	.99
151555	ValuePro	JX16183	2.1 x 5.5mm male	21.0 x 8.0 Dia.	5/C	1/A	1.75	1.59	1.39
2230096	Arndt	PJ-DC2.1*	2.1 x 5.5mm male	20.0 x 9.2 x 11.6	16/C	1/A	1.39	1.25	1.09
281851	Switchcraft	722A	2.1 x 5.5mm male	21.0 x 8.0 Dia.	7/C	1/A	3.95	3.59	3.29
2228594	Arndt	PJ1010A	2.1 x 5.5mm male	39.9 x 10.5 Dia.	6/F	3/A	1.75	1.49	1.25
159611	ValuePro	PJ1014A	2.1 x 5.5mm male	57.5 x 12.6 Dia.	6/F	3/A	1.95	1.75	1.59
2151136	ValuePro	HD2388C	2.1 x 5.5mm male	12.4 x 7.7 Dia.	8/C*	3/A	1.75	1.59	1.39
2144690	ValuePro	L5225	2.1 x 5.5mm male	11.0 x 9.1 x 14.7	11/B	1/B	.69	.59	.49
2227209	Velleman	CD021-1**	2.1 x 5.5mm male	13 x 14.5 x 40	15/E	4/C	1.49	1.25	1.09
2153908	Velleman	CD021-5#**	2.1 x 5.5mm male	13 x 14.5 x 40	15/E	4/C	4.95	4.49	3.95
2210677	ValuePro	WTJ-020-37A	2.1 x 5.5mm male	14.5 x 9 x 10.7	2/D	1/A	.69	.59	.45
101187	ValuePro	PP014A	2.5 x 5.5mm male	11.0 x 9.0 x 14.5	2/D	1/A	.69	.65	.55
2236130	Kobiconn	163-2125E	2.5 x 5.5mm male	11.0 x 9.0 x 14.8	17/D(SMD)	1/B	.79	.65	.49
2236156	Kobiconn	163-2421E	2.5 x 5.5mm male	10.8 x 9.0 x 14.0	18/E	2/A	.79	.69	.59
2168122	Adam Tech	ADC-002A-2	2.5 x 5.5mm male	11.0 x 9.0 x 14.3	2/D	1/A	.79	.69	.59
151563	ValuePro	DPJ-026A	2.5 x 5.5mm male	15.1 x 8.0 Dia.	5/C	1/A	1.95	1.75	1.49
2264551	ValuePro	142459	2.5 x 5.5mm male	39.7 x 10.35 Dia.	6/F	4/A	1.75	1.49	1.25
159506	ValuePro	PJ1015A	2.5 x 5.5mm male	57.5 x 12.6 Dia.	6/F	3/A	1.95	1.75	1.49
202358	ValuePro	HD2388	2.5 x 5.5mm male	12.4 x 7.7 Dia.	8/C*	3/A	1.19	.99	.89
281842	Switchcraft	712A	2.5 x 5.5mm male	15.8 x 7.5 Dia.	7/C	1/A	3.95	3.59	3.29
2144745	Arndt	J25M	2.5 x 5.5mm male	11.1 x 8.9 x 13.4	12/D	1/B	.39	.35	.29
2227217	Velleman	CD017-1**	2.5 x 5.5mm male	13 x 14.5 x 40	15/E	4/C	1.49	1.25	1.09
2153887	ValuePro	CD017-5#**	2.5 x 5.5mm male	13 x 14.5 x 40	15/E	4/C	5.95	5.49	4.95
1773996	Switchcraft	MDPC2ARA	2.5mm female	7.9 x 8.7 x 12.7	13/D	4/B	1.95	1.75	1.49
297035	Switchcraft	142A	3.5mm female	11.1 x 9.5 x 15.8	14/C	4/A	2.95	2.59	2.29
101143	ValuePro	PJ0352	3.5mm female	10.0 x 10.0 x 18.5	9/C	4/A	.89	.79	.69
165730	ValuePro	PJ0354R1	3.5mm female	15.5 x 5.9 Dia.	10/C	3/A	1.95	1.75	1.49
2183218	ValuePro	M6HDWR	Additional Panel Mounting Hardware indicated with 1				.69	.59	.49
281852	Switchcraft	5/16-32HDWR	Additional Panel Mounting Hardware indicated with 2				.69	.59	.49

† Center offset \* Plastic \*\* Screw terminals # 5 pack ✓ Panel mount groove \$ SMD/SMT package

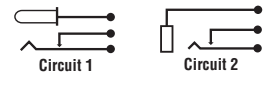
JAMECO  
ValuePro

## Velleman® AC/DC Power Plugs & Adapters

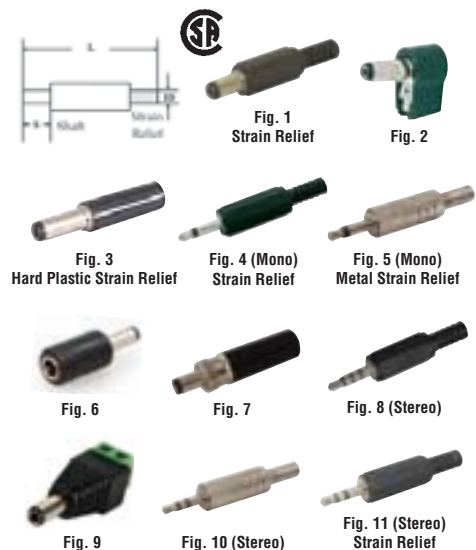
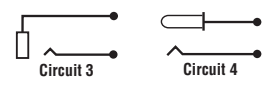
\*Web Code: MFP

Part No.	Mfr.	Product No.	Fig.	Description (Barrel) Plug ID x OD x L (mm)	Strain Relief ID x L (mm)	1	10	100
71192	ValuePro	PP137	1	F plug, 1.3 x 3.5 x 9.5	4.1 x 12 (black)	1.09	.95	.79
191484	ValuePro	PP049W	1	F plug, 2.1 x 5.5 x 9.0	4.6 x 12.5 (white)	1.09	.95	.79
2004890	ValuePro	PP049S	1	F plug, 2.1 x 5.5 x 9.5	4.5 x 12.5 (black)	1.09	.95	.79
28760	ValuePro	PP049	1	F plug, 2.1 x 5.5 x 9.5 (P205)	4.1 x 12 (black)	.95	.85	.75
2201990	ValuePro	CS1021A	3	F plug, 2.1 x 5.5 x 14	8.3 x 22 (black)	.99	.89	.79
2179358	ValuePro	27-1136A	7	F plug, 2.1 x 5.5 x 9.5 (locking)	6.0 x 25 (black)	2.95	2.49	1.95
2145123	ValuePro	CS1021-A-12MM	1	F plug, 2.1 x 5.5 x 12	4.3 x 12 (black)	.89	.79	.69
2230344	ValuePro	JR1814S	1	F plug, 2.1 x 5.5 x 14	4.6 x 12 (black)	.89	.79	.69
138587	ValuePro	PL-007	2	F plug, 2.1 x 5.5 x 12 (right angle)	2.8 x 11 (black)	.89	.79	.65
2227225	Velleman	CD022-1	9	F plug, 2.1 x 5.5 x 11 (screw term)	—	1.49	1.25	1.09
2153916	Velleman	CD022-5	9	F plug, 2.1 x 5.5 x 11 (screw term)	(5 pack)	4.95	4.49	3.95
190538	ValuePro	JR1813S	1	F plug, 2.5 x 5.5 x 9.5	4.7 x 13 (black)	.89	.79	.65
28768	ValuePro	PP109	1	F plug, 2.5 x 5.5 x 9.5 (P206)	4.7 x 13 (black)	.89	.79	.65
2179366	ValuePro	27-1136B	7	F plug, 2.5 x 5.5 x 9.5 (locking)	6.0 x 25 (black)	2.95	2.49	1.95
2145115	ValuePro	CS1021-B-12MM	1	F plug, 2.5 x 5.5 x 12	4.3 x 12 (black)	.99	.89	.79
168242	ValuePro	PP109N	3	F plug, 2.5 x 5.5 x 14	8.3 x 22 (black)	.99	.89	.79
2099163	ValuePro	PL-008	2	F plug, 2.5 x 5.5 x 9.5 (right angle)	2.8 x 11 (black)	.95	.85	.75
2227233	Velleman	CD018-1	9	F plug, 2.5 x 5.5 x 11 (screw term)	—	1.49	1.25	1.09
2153895	Velleman	CD018-5	9	F plug, 2.5 x 5.5 x 11 (screw term)	(5 pack)	4.39	4.15	3.95
101135	ValuePro	JR-1020	4	M plug, — x 2.5 x 11 (mono)	4.3 x 13 (black)	.69	.59	.49
231176	ValuePro	JR1012	11	M plug, — x 3.5 x 14 (stereo)	4.3 x 13.5 (black)	1.19	.99	.85
2231398	Arndt	SPY1101	3	M plug 3.5 x 14 (stereo)	5.2 x 2.5 (black)	1.19	1.09	.95
231167	ValuePro	JR1155BTS	10	M plug, — x 3.5 x 14 (stereo)	4.4 x 19 (metal)	1.75	1.49	1.25
231160	ValuePro	PJ1035	5	M plug, — x 3.5 x 14 (mono)	4.8 x 13.5 (metal)	1.49	1.25	.99
101152	ValuePro	PJ1035	4	M plug, — x 3.5 x 14.5 (mono)	4.0 x 13 (black)	.99	.85	.69
2200954	ValuePro	JR1037	8	M plug, — x 3.5 x 14.5 (stereo)	4.5 x 12 (black)	2.29	1.95	1.75
2112989	ValuePro	JP1828C	6	Adapter, 2.1mm M to 1.3mm F (1.3"L)	—	1.49	1.25	1.09
1953591	ValuePro	JR1833	6	Adapter, 2.1mm M to 2.5mm F (1.4"L)	—	1.49	1.25	1.09
2236682	ValuePro	DC2.1-3.5M	6	Adapter, 2.1mm M to 3.5mm M (1.3"L)	—	1.49	1.25	1.09
2228551	ValuePro	DCJ2.5-DCP1.3	6	Adapter, 2.5mm M to 1.3mm F (1.3"L)	—	1.49	1.25	1.09
1953604	ValuePro	JR1831	6	Adapter, 2.5mm M to 2.1mm F (1.4"L)	—	1.49	1.25	1.09

Mounting	Code
Panel	C
PCB	D
Panel & PCB	E
Cable	F



Terminals	Code
Solder eyelet	A
PC board	B
Screw term	C



**Need a Plug Modification?**

We are happy to change any listed wall adapter or table-top power plug to overmolding on a connector of your choice for \$4.00 each. A 100 piece minimum order applies. Please call for details.

# Transformers, Wall Adapters & Power Cables



## 5VDC @ 200mA Wall USB Adapter

- Works with digital camera, cell phones, PDA, MP3 and other USB devices
- LED indicator
- TUV/FCC approved
- Output voltage: 5VDC @ 200mA
- Input volt.: 100-240VAC @ 50/60Hz
- Size: 2.5"H x 1.5"W x 0.8"D



Part No.	Mfr. Part No.	1	10	50	100
2138636	SW013US-0500020US	\$2.95	\$2.59	\$2.25	\$1.95

## JAMECO ValuePro 320VA Variable AC Transformer

- Input voltage: 110VAC @ 50-60Hz
- Max. current: 2.5A
- Matching input/output terminals: P/N 103668 and 109112 (disconnect .25" solderless terminals), see Web
- Panel mount
- One-year warranty
- Shaft length: 0.5"



Includes: 3 disconnect .25" solderless terminals

Part No.	Cross Ref. No.	Weight	Size (Dia. x H)	1	5	25
149324	PSV-203-R	2.5 lbs.	2.8" x 2.1"	\$64.95	\$59.95	\$54.95

## JAMECO ValuePro Transformer Isolation

- Output: 120VAC/4A, 60Hz
- Input: 110VAC 60Hz, 1800VA
- Primary: Current: 14 Amps fuse
- Direct AC#1: 110VAC 60Hz, 900VA
- Direct AC#2: 110VAC 60Hz, 900VA
- Secondary: Current: 7 Amps fuse
- Isolated AC#1: 110VAC 60Hz, 450VA
- Isolated AC#2: 110VAC 60Hz, 450VA
- Dimension: 5"L x 6"W x 9"H



Part No.	Cross Ref. No.	1	5	25
2214336	GRP-1200	\$99.95	\$89.95	\$84.95

## JAMECO ValuePro 300VA Isolation Transformer 120VAC to 120VAC

- Output voltage: 120VAC @ 2.5A (isolated)
- Input connector: 5.5' cord with 2-prong plug
- Input voltage: 120VAC @ 60Hz
- Size: 3.2"W x 4.6"D x 4.2"H
- Weight: 7.0 lbs.



Part No.	Cross Ref. No.	1	5	25
181315	ITR300	\$49.95	\$44.95	\$39.95

## JAMECO ValuePro DC Cords with Pigtail - 6' length

- 18-24 AWG
- Color: black

Part No.	Cross Ref. No.	Fig.	AWG	Type	ID x OD x L (mm)	1	10	100
2229731	DC-168	1	18	Plug	2.1 x 5.5 x 12	\$2.59	\$2.35	\$2.15
2229706	DC-169	1	18	Plug	2.5 x 5.5 x 12	2.59	2.35	2.15
2229722	DC-173	2	18	Jack	2.1 x 5.5 x 12	2.59	2.35	2.15
2229714	DC-175	2	18	Jack	2.5 x 5.5 x 12	2.95	2.59	2.29
2231401	DC20AWG-RA-2.5	3	20	Plug	2.5 x 5.5 x 12	1.59	1.45	1.29
2096763	DCCORD2.1	1	24	Plug	2.1 x 5.5 x 12	1.95	1.75	1.59
2096771	DCCORD2.5	1	24	Plug	2.5 x 5.5 x 12	1.95	1.75	1.59
2114600	6FT#245.5X2.1	2	24	Jack	2.1 x 5.5 x 12	1.95	1.75	1.59
2114597	6FT#245.5X2.5	2	24	Jack	2.5 x 5.5 x 12	1.95	1.75	1.59
2230791	DC-6-2.1-CUT	1	24	Plug	2.1 x 5.5 x 10	1.49	1.35	1.19
2231380	DC-6-2.5-CUT	1	24	Plug	2.5 x 5.5 x 10	1.49	1.35	1.19

## JAMECO ValuePro DC Extension and Splitter (Y) Power Cables

- 18 AWG/26AWG
- Color: black

Part No.	Mfr.	Cross Ref. No.	Description (Barrel)	ID x OD (mm)	Cable Lgth	1	10	100
2099147	ValuePro	DCEXTCORD2.1-3FT	2.1 F x 2.1 M	3'	.....	\$2.49	\$2.25	\$1.95
2099121	ValuePro	DCEXTCORD2.1-6FT	2.1 F x 2.1 M	6'	.....	2.95	2.59	2.25
2099155	ValuePro	DCEXTCORD2.5-3FT	2.5 F x 2.5 M	3'	.....	2.49	2.25	1.95
2099139	ValuePro	DCEXTCORD2.5-6FT	2.5 F x 2.5 M	6'	.....	2.95	2.59	2.25
2230192	Arndt	EN-DCM-2*	2.1M to (2) 2.1F	9'	.....	3.95	3.59	2.95
2230205	Arndt	2505	2.1M to (5) 2.1F	13'	.....	4.95	4.49	3.95
2230213	Arndt	2508	2.1M to (8) 2.1F	16'	.....	6.95	6.25	5.59

\*26 AWG

## 5VDC @ 1 & 2A USB Wall Adapters

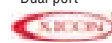
\*Web Code: WFV

- Works with digital camera, cell phones, PDA, MP3 and other USB devices
- Input voltage: 100-240VAC @ 50/60Hz
- Flip up prongs
- UL/FCC approved



Part No.	Mfr. Part No.	Output Curr.	Size (H" x W" x D")	1	10	50	100
2210888	1128	1.0A	2.6 x 1.3 x 1.5	\$3.95	\$3.49	\$2.95	\$2.59
2227786	XA1005-2U*	2.0A	2.7 x 1.7 x 1.0	4.95	4.49	3.95	2.49
2244359	XS-0502/00FU	2.1A	2.0 x 1.9 x 1.1	6.95	6.25	5.59	4.95

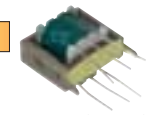
\*Dual port



## Audio Transformer

\*Web Code: SAJ

- 200mW (P/N 2210511); 75mW (P/N 2235954) power rating
- Primary turns: 11486; Secondary turns: 1
- 300Hz to 3.4kHz



Part No.	Mfr. Part No.	Secondary Impedance	Primary Impedance	1	10	100
2210511	42TM013-RC	8Ω	1kΩ	\$3.95	\$3.59	\$3.29
2235954	42TL011-RC	1.5kΩ	500Ω	3.95	3.59	3.29

## PC Mount Audio Transformer

- Impedance matching: 10% over frequency range
- 6-pin PC mount
- Output: 100mW
- Impedance (Ω): 600CT/600CT
- Primary DC Unbalance: 15mA
- Dimensions: 13/16"W x 9/32"D x 5/8"H



Part No.	Mfr. Part No.	1	10	100
630459	TY-145P	\$5.95	\$5.49	\$4.49

## EMI Suppression Cores with Case

Reduce Electromagnetic Interference (EMI) with a snap of these suppression cores around a power cord or data cord. Easy to install and an affordable way to reduce EMI without redesigning your product.



- Impedance at 100MHz between 75-225Ω min.
- Color: black



Part No.	InDia.	OutDia.	Length	1	10	100
218174	.20"	.64"	1.15"	\$1.25	\$ .99	\$ .75
217842	.34"	.78"	1.40"	1.49	1.25	.99
2202600	.38"	.87"	1.34"	.99	.85	.69
2081810	.38"	1.0"	0.65"	1.25	.99	.75

## JAMECO ValuePro Automobile Fused Power Plugs with Cords

- Accepts .25" x 1.25" fuse

115002: Screw assembly with strain relief (no cord)

115002



124760: 3' cord with pigtail

124760



2229773: 3' cord with 2.1mm x 5.5mm connector

2229773



2234396: Screw assembly with strain relief (no cord)

2234396



Part No.	Fuse	1	10	100
2229773	2A/250VAC	\$2.75	\$2.49	\$2.25
124760	3A/250VAC	2.49	2.25	1.95
115002	5A/250VAC	2.25	1.95	1.75
2234396	10A/250VAC	2.95	2.75	2.49

## REGULATED SWITCHING WALL ADAPTERS



Part No.	Voltage @ Current	Page	Price
2232825	12V @ 1.0A	93	\$8.95
2233983	12V @ 1.0A level 6 efficiency	93	10.95

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Power Transformers

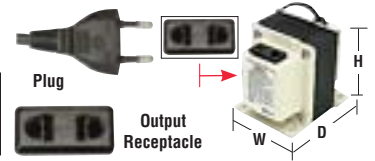
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## International Step-Down Transformer

\*Web Code: RAL

Part No.	Cross Ref. No.	Type	Volt Step	Primary Voltage	Secondary Voltage	Watts (VA)	Dimensions			Weight (lbs.)	Pricing		
							H"	W"	D"		1	5	25
85016	GPC1003	Auto	Down	220VAC	120VAC	300	3.50	3.05	3.95	4.8	\$49.95	\$44.95	\$39.95



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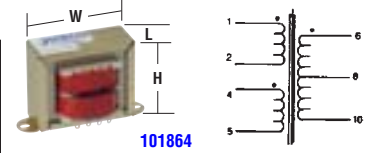
## Quick-Connect Power Transformers

\*Web Code: BAN

- Input voltage: 120/230VAC, 50-60Hz
- Terminals: quick-connect, solder

Part No.	Product No.	Triad Cross*	Input Voltage	Output Voltage	Watts (VA)	Size of Connect	Dimensions			Wt. (lbs.)	Pricing		
							L"	W"	H"		1	5	25
101864	XFR2424Q	FD724	120/230VAC	24VCT @ 2.4A	57.6	0.141"	2.10	2.70	2.29	1.7	\$17.95	\$16.49	\$14.95
104417	XFR3615Q	FD736	120/230VAC	36VCT @ 1.5A	54.0	0.141"	2.30	2.70	2.30	1.8	19.95	18.49	16.95

\*Triad cross is for reference only

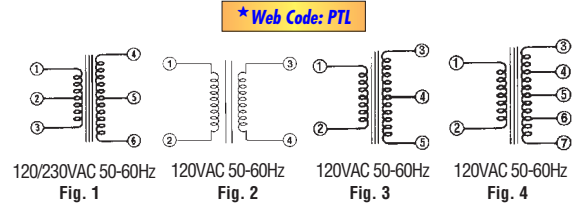
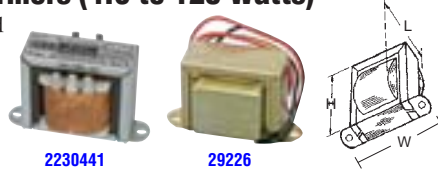


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## Power Transformers (4.5 to 120 Watts)

Power transformers have both single and dual-voltage inputs and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

- Primary: 120VAC or 120/230VAC, 50-60Hz



\*Web Code: PTL

Part No.	Product No.	Triad Cross#	Primary Color Code			Watts (VA)	Secondary				Lead Type	Fig.	Dimensions			Wt. (lbs.)	Pricing		
							Voltage		Color Code				L"	W"	H"		1	10	100
105524	XR082-91-R	—	Black	White*	Red	4.5	4.5VCT @ 1A	Blue	Black*	Blue	Wire	1	1.82	2.43	1.67	0.7	\$11.95	\$10.95	\$9.95
102163	XFR6102	F314X	Black	Yellow*	Red	7.6	6.3VCT @ 1.2A	White	Black*	White	Wire	1	1.84	2.40	1.67	0.8	10.95	9.95	8.95
221400	P-8657	F218X	Black	None	Black	24.0	12VAC @ 2A	White	None	White	Wire	2	1.89	2.75	1.99	1.3	11.95	10.95	9.95
2265663	67-1120	—	Lug	None	Lug	6.0	12VCT @ 0.5A	Lug	Lug	Lug	Lug	3	1.30	1.69	1.41	0.7	9.95	8.95	7.95
2265671	67-1121	—	Lug	None	Lug	12.0	12VCT @ 1A	Lug	Lug	Lug	Lug	3	1.37	1.69	1.41	0.7	9.95	8.95	7.95
2265679	67-1123	—	Lug	None	Lug	36.0	12VCT @ 3A	Lug	Lug	Lug	Lug	3	1.73	2.32	2.00	0.7	11.95	10.95	9.95
2230475	67-1122	—	Lug	None	Lug	24.0	12VCT @ 2A	Lug	Lug	Lug	Lug	3	1.67	2.70	1.64	0.7	10.95	9.95	8.95
221356	P-8658	F219X	Black	None	Black	48.0	12VAC @ 4A	White	None	White	Wire	2	2.25	4.00	2.63	2.3	12.95	11.95	10.95
2230441	67-1125	—	Lug	—	Lug	60.0	12VCT @ 5A	Lug	Lug	Lug	Lug	3	2.11	3.60	2.27	1.7	19.95	17.95	15.95
2230926	F-25X	—	Black	—	Black	18.9	12.6VCT @ 1.5A	Blue	Yellow	Blue	Wire	3	2.00	3.31	1.93	1.3	9.95	8.95	7.95
102155	XFR1220	F344X	Black	Yellow*	Red	25.2	12.6VCT @ 2A	White	Black*	White	Wire	1	2.35	2.32	1.97	1.5	9.95	8.95	7.95
29226	XFR122	F44X	Yellow	None	Yellow	25.2	12.6VCT @ 2A	Blue	Red*	Black	Wire	3	2.41	2.79	1.99	1.5	12.95	11.49	9.95
149771	XFR1240	F3181U	Black	Red*	Yellow	50.4	12.6VCT @ 4A	White	Black*	White	Wire	1	2.45	3.20	2.25	2.2	13.95	12.49	10.95
102121	XFR124	F181U	Black	None	Black	50.4	12.6VCT @ 4A	White	Black*	White	Wire	3	2.45	3.21	2.26	2.7	14.95	13.49	10.95
2188502	53260	—	Red	None	Green	48.0	16/6VCT @ 3A	Purple	Multi	Gray	Wire	4	2.36	2.34	1.94	1.3	6.95	6.25	5.95
105532	XFR1810	—	Blue	Red*	Black	18.0	18VCT @ 1A	Yellow	Black*	Yellow	Wire	1	2.20	2.81	1.99	1.2	11.95	10.95	9.95
2230934	P-8691	—	Black	Black	Black	18.0	18VCT @ 2A	Blue	Blue	Blue	Wire	1	2.13	3.31	2.00	1.5	10.95	9.95	8.95
149957	XFR1820	—	Black	Red*	Yellow	36.0	18VCT @ 2A	White	Black*	White	Wire	1	2.25	3.15	2.71	1.8	12.95	11.95	10.95
221382	P8396	—	Black	None	Black	9.6	24VCT @ 0.4A	White	Black*	White	Wire	3	1.63	2.80	1.97	0.6	10.95	9.95	8.95
2265687	67-1240	—	Lug	None	Lug	12.0	24VCT @ 0.5A	Lug	Lug	Lug	Lug	3	1.37	1.69	1.41	0.7	9.95	8.95	7.95
2230483	67-1241	—	Lug	None	Lug	24.0	24VCT @ 1A	Lug	Lug	Lug	Lug	3	2.07	3.60	2.25	1.7	10.95	9.95	8.95
102112	XFR2410	F346X	Black	Yellow*	Red	24.0	24VCT @ 1A	White	Black*	White	Wire	1	2.41	2.80	1.99	1.5	11.95	10.95	9.95
2230491	67-1242	—	Lug	None	Lug	48.0	24VCT @ 2A	Lug	Lug	Lug	Lug	3	2.33	1.85	1.93	1.3	12.95	11.95	10.95
221373	P-8662	F192X	Black	None	Black	48.0	24VCT @ 2A	White	Black*	White	Wire	3	2.44	3.60	2.23	2.3	13.95	12.49	10.95
112513	XFR242N	F229X	Black	None	Black	48.0	24VAC @ 2A	White	None	White	Wire	2	2.33	3.16	2.28	1.8	13.95	12.49	10.95
221365	P-8663†	F193U	Lug	None	Lug	96.0	24VCT @ 4A	Lug	Lug	Lug	Lug	3	2.81	2.94	4.00	4.0	25.95	23.95	21.49
2230459	67-1245	—	Lug	—	Lug	120.0	24VCT @ 5A	Lug	Lug	Lug	Lug	3	2.50	4.10	2.62	3.0	29.95	26.95	24.25
149797	XFR2820	F3185U	Black	Red*	Yellow	56.0	28VCT @ 2A	White	Black*	White	Wire	1	2.45	3.22	2.26	2.3	13.95	12.95	10.95

\* Center tap # Triad cross is for reference only † Solder terminal

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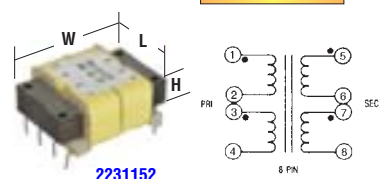
## Split-Bobbin Power Transformers (6 & 12 Watts)

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 120/230VAC, 50-60Hz
- PC terminal pin spacing for accurate placement

Part No.	Cross Ref. No.	Triad Cross*	Input Voltage	Watts (VA)	Individual Output	Parallel Output	Series Output	Dimensions			Wt. (lbs.)	Pricing		
								L"	W"	H"		1	10	100
2231152	3FL12-475	—	115/230	6	6.3V @ 0.5A	6.3V @ 1.0A	12.6VCT @ 0.5A	1.56	1.88	1.1	0.4	\$8.95	\$6.95	\$4.95
102593	SPW-2304	FS24500	115/230	12	12V @ 0.5A	12V @ 1.0A	24VCT @ 0.5A	2.00	2.50	1.06	0.7	3.95	3.49	2.95

\*Triad cross is for reference only



\*Web Code: LBK

\*Audio Transformers — Enter Web Code SAJ

\*Variable Transformers — Enter Web Code MAR

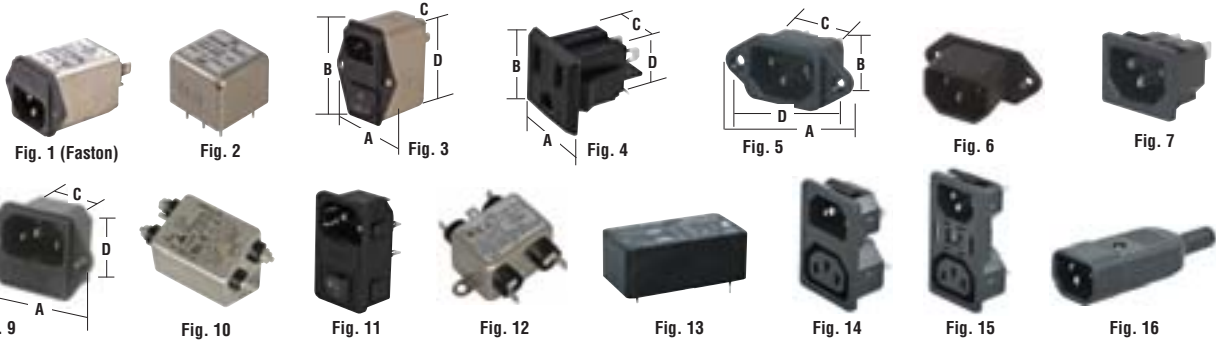
\*DC Power Plugs & Adapters — Enter Web Code MFP



# Power Entry Filters, International Power Cords & Power Cord Adapters

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## EMI Power Entry Filters (IEC Connector), Line Filters & AC Receptacles (IEC 320)



• Rated voltage: 115/250VAC • Operating frequency: 50/60Hz • Hipot rating (one minute) line to ground: 2250VDC; line to line: 1450VDC

\* Web Code: ACR

**EMI Power Entry Filter:** Maximum leakage current each line to ground: @ 115VAC 60Hz: 0.20mA @ 250VAC 50Hz: 0.40mA

**EMI Line Filter:** Maximum leakage current each line to ground: @ 115VAC 60Hz: 0.25mA; 1.0mA (10000pF) @ 250VAC 50Hz: 0.45mA; 2.0mA (10000pF)

Part No.	Mfr.	Product No.	Description	Fig.	Current (A)	Hipot (VDC)	Terminals	Terminal Size	Agency Approvals	Dimension (in.)				Pricing		
										A	B	C	D	1	10	100
1172613	TE Conn.	1EGG1-2	Pwr entry filter, straight, fused (screw flanged)	1	1	2250	Faston	0.25"	UL/CSA/VDE	1.62	1.29	1.44	1.27	\$ .99	\$ .89	\$ .79
2114116	Adam Tech	PLF-3PC	Line filter, metal case (PC mount)	2	3	250	Solder	0.039"	UL/CSA/VDE	0.984	0.984	0.787	—	5.95	5.39	4.79
2217879	Schaffner	FH365-4/05	Power entry filter, straight, fused (screw flanged)	1	4	2250	Faston	0.25"	UL/CSA/VDE	2.30	1.10	1.26	1.40	1.09	.99	.89
2234652	Schaffner	FN282B-6-06**	Pwr entry filter, strght, fuse & sw. (scrw flngd)	4	6	25000	Faston	0.25"	UL/CSA	1.26	3.23	—	2.36	14.95	13.49	11.95
2114124	Adam Tech	PLF-6DZ2KR	Pwr entry filter, strght, fuse & sw. (scrw flngd)	3	6	250	Faston	0.25"	UL/CSA/VDE	1.968	2.559	2.394	1.154	9.95	8.95	7.95
2234644	Schurter	5500.2014	Line filter (PC mount)	13	6.5	125	Solder	0.032"	UL/CSA	1.78	0.95	0.67	—	6.95	6.25	5.95
2178507	Arndt	6100-4115	AC power inlet, male (snap-in)	7	10	250	Solder	0.14"	UL/CSA/VDE	1.19	0.91	1.06	0.77	.29	.25	.19
117445	ValuePro	0717#	AC power inlet, male w/ fuse chamber (snap-in)	8	10	250	Faston	0.187"	UL/CSA/VDE	1.18	1.30	1.05	1.20	1.95	1.79	1.59
265528	ValuePro	WS-044#	AC power inlet, male w/ fuse chamber (screw)	9	10	250	Faston	0.187"	UL/CSA/VDE	1.40	1.28	1.06	1.21	1.75	1.49	1.25
2232868	Schurter	DC11.0001.001	AC power inlet, male w/ switch (screw)	9	10	250	Faston	0.187"	UL/CSA/VDE	1.73	1.34	1.06	1.43	7.95	6.95	5.95
2197880	Delta	10DRCS5	Power entry filter (flange mount)	10	10	2250	Threadpost	0.164"	UL/CSA/VDE	3.87	1.52	2.94	1.21	3.95	3.59	3.29
2230176	Qualtech	851-10/007	Power line EMI filter (flange mount)	12	10	2250	Faston	0.25"	UL/CSA/VDE	2.54	2.13	1.18	—	6.95	2.59	2.39
2114095	Adam Tech	NEMA-5-2*	AC power outlet, NEMA receptacles (snap-in)	4	15	125	Fork	0.25"	UL/CSA/VDE	1.063	1.063	0.70	0.866	.99	.85	.69
2235989	Kobiconn	161R301-B07	AC power inlet, male, PC type	6	10	250	PCB	0.18"	UL	1.92	0.88	1.06	1.58	.89	.79	.69
2236033	Kobiconn	161R301SN01	AC power inlet, male, snap-in	6	15	250	Faston	0.187"	UL	1.97	0.76	1.06	1.58	1.09	.99	.89
2178515	Arndt	EAC-409	AC power inlet, male (snap-in)	7	15	250	Solder	0.16"	UL/CSA/VDE	1.22	0.94	1.06	0.78	.29	.25	.19
1954640	ValuePro	K2415	AC power inlet, female (snap-in)	7	15	250	Faston	0.187"	UL/CSA/VDE	1.38	0.98	1.26	1.10	.29	.25	.19
2178494	Arndt	EAC-324	AC power inlet, male, straight (screw flanged)	6	15	250	Solder	0.16"	UL/CSA/VDE	1.96	0.89	1.09	1.09	.29	.25	.19
2229298	Schurter	6100-43	AC power inlet, male (snap-in)	7	15	250	Faston	0.25"	UL/CSA/VDE	1.18	0.90	1.06	0.77	.49	.39	.29
2235874	Kobiconn	161-R3012E	AC power inlet/outlet male/female (snap-in)	14	15	250	Faston	0.187"	UL/CSA/VDE	1.38	2.08	1.08	—	1.95	1.75	1.49
2235891	Kobiconn	161-R3012S	AC power inlet/outlet snap-in, fused	15	15	250	Faston	0.187"	UL/CSA/VDE	1.38	2.58	1.15	—	1.95	1.75	1.49
2235920	Kobiconn	161-R331	AC power cable conn inlet	16	10	250	—	—	UL	2.28	1.15	.826	1.02	1.95	1.75	1.49
147109	ValuePro	42R02	AC power inlet, male (snap-in)	7	15	250	Faston	0.25"	UL/CSA/VDE	1.23	0.95	1.04	0.77	.99	.89	.75
147901	ValuePro	701R	AC power inlet, male (screw flanged)	5	15	250	Faston	0.187"	UL/CSA/VDE	1.97	0.76	1.06	1.58	1.09	.99	.79
16652	ValuePro	JR101	AC power inlet, male (screw flanged)	5	15	250	Faston	0.25"	UL/CSA/VDE	1.97	0.76	1.06	1.58	1.09	.99	.79
2189521	Adam Tech	IEC-GS-1-150#2	Pwr entry male filter, w/ fuse & switch (snap-in)	11	15	250	Faston	0.187"	UL/CSA/VDE	1.20	1.97	1.07	1.84	2.95	2.75	2.49
2095525	Adam Tech	IEC-GS-1-100#1	AC pwr inlet, male w/ sw. & fuse folder (snap-in)	11	15	250	Faston	0.187"	UL/CSA/VDE	1.20	1.97	1.07	1.84	2.95	2.75	2.49
2157546	Adam Tech	IEC-GS-1-200#3	AC pwr fused inlet, male w/ switch (snap-in)	11	15	250	Faston	0.187"	UL/CSA/VDE	1.20	1.97	1.07	1.84	2.95	2.59	2.39

\* For 14-16 AWG wire \*\* Medical version # Includes spare fuse holder - fuse type 5mm x 20mm (250V); Panel thickness: 1.04", 2.06", 3.08"

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## International Power Cords

- Voltage rating: 300V
- Cord type: H05VVf
- 3-conductor detachable power cords
- BSI: British Standard Institution
- Cord color: black



\* Web Code: XAQ

Part No.	Cross Ref. No.	Country	Agency Approvals	Plug Fig.	Cord Length	Conductors	Pricing		
							1	10	100
117911	2171H576	Europe	All	1	6 ft.	3/0.75mm	\$4.95	\$4.49	\$3.95
174633	21071H5182	UK/Ireland	BSI	2	8 ft.	3/1.0mm	6.95	6.25	5.59

European Agency Approvals					
Germany	VDE		France	LCIE	
Austria	DVE		Netherlands	KEMA	
Belgium	CEBEC		Norway	NEMKO	
Denmark	DEMKO		Sweden	SEMKO	
Finland	FIMKO		Switzerland	SEV	

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## Power Cord Adapters



Part No.	Product No.	Description	1	10	50	100
2188545	YL-3215	IEC C14 plug to Nema 5-15R	\$3.95	\$3.59	\$3.29	\$2.95
2233991	YL-3412	IEC C6 plug to IEC C13 receptacle	3.95	3.59	3.29	2.95
2234003	YL-3114	IEC C8 plug to IEC C5 receptacle plug adapter	3.95	3.59	3.29	2.95
2234011	YL-3214	IEC C14 plug to IEC C5 receptacle plug adapter	3.95	3.59	3.29	2.95
2234020	YL-3113	NEMA 1-15P plug to IEC C7 receptacle plug adapter	3.95	3.59	3.29	2.95
2234038	YL-1212	NEMA 5-15P plug to IEC C13 receptacle plug adapter	3.95	3.59	3.29	2.95
2188553	YL-2215	IEC C13 to Nema 5-15P plug	3.95	3.59	3.29	2.95

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# Power Cords

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## JAMECO ValuePro 2 & 3-Conductor Fan, Pigtail, Detachable & Hospital Grade Power Cords

- Molded connectors • Voltage rating: 300V • Excellent resistance to jacket abrasion • Temp.: -20°C to +60°C

★ Web Code: UBF



AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

### 2-Conductor Line Cords with Pigtail

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	Pricing			
									1	10	50	100
2230803	SPT-6-C#	JVP	.16	1	6'	Black	18/2	SPT-2	\$1.95	\$1.75	\$1.59	\$1.35
124434	ST008	JVP	.16	1	6'	Black	18/2	SPT-2	2.49	2.25	1.95	1.75
42042	SY-001-R	JVP	.18	1A	6'	Black	18/2	SPT-2	2.95	2.75	2.49	2.25

### 2-Conductor "8" Style Power Cords for Laptops and Power Supplies

189587	VW-1	ADT	.30	2A	6'	Black	18/2	SPT-2	\$2.95	\$2.69	\$2.39	\$2.19
2228666	EP-1 **	JVP	.30	2B	6'	Black	18/2	SPT-2	2.95	2.69	2.39	2.19
2233916	10W1-13215	JVP	.60	2A	15'	Black	18/2	SPT-2	5.95	5.49	4.95	4.49

### 2-Conductor AC Plug Fan Power Cords

1952572	FACS	JVP	.40	3A	6'	Black	18/2	SPT-2	\$3.95	\$3.59	\$3.19	\$2.49
1952581	FAC45	JVP	.40	3B	6'	Black	18/2	SPT-2	4.95	4.59	3.95	3.49

### 3-Conductor Power Cords with Pigtail (Unshielded) 290 Plug

38009	17237	JVP	.31	4	6'	Gray	18/3	SVT	\$3.79	\$3.39	\$2.95	\$2.79
2158258	17236SR#	JVP	.35	4	6'	Black	18/3	SVT	3.49	2.95	2.75	2.49
37997	17236	JVP	.30	4	6'	Black	18/3	SVT	4.95	4.49	3.95	3.59
173810	17405	JVP	.14	4	6'	Gray	18/3	SJT	3.95	3.59	3.25	2.95
159410	17405B	JVP	.37	4	6'	Black	18/3	SJT	4.95	4.49	3.95	3.59
38025	17238	JVP	.42	4	8'	Black	18/3	SVT	5.95	5.49	4.95	4.49
102007	17535B†	JVP	.49	4	10'	Black	18/3	SVT	6.95	6.25	5.95	5.59
196286	LL40378	JVP	.80	4	10'	Black	16/3	SJT	7.95	6.95	6.25	5.59
2217908	00960018	JVP	.41	4	6'	Black	14/3	SJT	7.95	6.95	6.25	5.59
100272	17629B	JVP	.88	4	9'	Black	14/3	SJT	9.95	8.95	7.95	6.95

### 3-Conductor Detachable Power Cords (Unshielded) 290B/386A Plugs

2081801	17002A	JVP	.36	5	1'	Black	18/3	SVT	\$2.95	\$2.65	\$2.39	\$1.95
2236527	LL57870	JVP	.18	5	2'	Black	18/3	SVT	2.95	2.75	2.49	2.05
2234679	E202351-18-3†	ADT	.35	5	3'	Black	18/3	SVT	2.95	2.59	2.25	1.95
2082425	17000A	JVP	.35	5	3'	Black	18/3	SVT	3.25	2.95	2.59	2.29
38041	17249	JVP	.37	5	6'	Beige	18/3	SVT	3.49	2.95	2.49	1.95
38050	17250	JVP	.36	5	6'	Black	18/3	SVT	4.95	4.49	3.95	3.59
132118	17500	JVP	.44	5	6'	Black	18/3	SJT	4.95	4.49	3.95	3.25
1585637	171096	JVP	.60	5	8'	Black	18/3	SVT	4.95	4.49	3.95	3.59
2202271	17501RF\$	ADT	.55	5	10'	Black	18/3	SVT	2.95	2.59	2.29	1.95
102024	17501V	JVP	.55	5	10'	Black	18/3	SVT	6.95	6.25	5.95	5.49
2145051	177323	JVP	.70	5	15'	Black	18/3	SVT	9.95	8.95	7.95	7.49
2126053	LL76932\$	ADT	.52	5	6'	Black	16/3	SJT	3.95	2.95	2.49	1.95
159361	17602	JVP	.52	5	6'	Black	16/3	SJT	5.95	5.39	4.79	4.29
1537230	LL34877	JVP	.72	5	8'	Black	16/3	SJT	7.95	6.95	6.25	5.59
125541	17504	JVP	.72	5	8'	Black	14/3	SJT	7.95	7.19	6.49	5.79
2272981	LL81924	ADT	.95	5	10'	Black	14/3	SJT	6.95	6.25	5.59	4.95

\*\* European plug #Cut leads ##.55" x .62" strain relief † European standard insulation color code \$ RFI filter on cord

### 3-Conductor Detachable Power Cords (Shielded) 290B/386A Plugs

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	Pricing			
									1	10	50	100
161761	17742	JVP	.40	5	6'	Black	18/3	SVT	\$4.49	\$3.95	\$3.59	\$2.95

### 3-Conductor Nema 5-15P to IEC-60320-C13 Auto Lock

2233887	2500.036AL	JVP	.35	5	3'	Black	18/3	SVT	\$11.95	\$10.95	\$9.95	\$8.95
2233895	2500.072AL	JVP	.36	5	6'	Black	18/3	SVT	12.95	11.95	10.95	9.95
2233908	2500.120AL	JVP	.55	5	10'	Black	18/3	SVT	14.95	13.49	11.95	11.49

### 3-Conductor Computer Power Supply Extension Cords (150/386A/910 Plugs)

206172	PEC-3	JVP	.22	6	3'	Black	18/3	SVT	\$3.49	\$2.95	\$2.49	\$1.95
28468	PEC	JVP	.36	6	6'	Black	18/3	SVT	3.95	3.55	3.19	2.79
420224	10W1-02212	JVP	.53	6	12'	Black	18/3	SVT	5.95	5.39	4.79	4.25

### 3-Conductor Right Angle Detachable Power Cords (Unshielded) 290B/910 Plugs

38077	17250R	JVP	.54	7	6'	Black	18/3	SVT	\$3.95	\$3.55	\$3.19	\$2.79
177384	17507	JVP	.28	7	10'	Black	18/3	SVT	4.95	4.49	3.95	3.49

### 3-Conductor Right Angle Detachable Power Cord (Shielded) 290B/910 Plugs

173252	17745	JVP	.16	7	6'	Black	18/3	SVT	\$5.95	\$5.39	\$4.79	\$4.25
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### 3-Conductor Hospital Grade Power Cords (green dot)

2231347	E156549	JVP	.75	8	8'	Gray	16/3	SJT	\$10.95	\$9.95	\$8.95	\$7.95
132011	17006G	JVP	.82	8	10'	Gray	16/3	SJT	12.95	11.95	10.95	9.95
2233836	158645	ADT	1.1	8	12'	Gray	16/3	SJT	14.95	13.49	11.95	10.95

### 3-Conductor Computer Monitor Power Adapter Cord (150/386 Plugs)

177448	MPC1	JVP	.16	9	1'	Black	18/3	SVT	\$2.95	\$2.69	\$2.39	\$2.19
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### 3-Conductor Detachable Power Cord (Power Strip Saver) 290B/386 Plugs

199778	PSS-1	JVP	.16	10	1'	Black	18/3	SVT	\$2.95	\$2.69	\$2.39	\$2.15
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### 3-Conductor Power Cord ("Y" Type Power Strip Saver II) 290B/386 (2) Plugs

208347	121-2594	ZTK	.38	11	22'	Black	16/3	SJT	\$8.95	\$7.95	\$7.49	\$6.95
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### 3-Conductor "Mickey Mouse" Style Power Supply Cords (2 Prong Plug w/ Ground)

1953559	MMFLAT	ADT	.40	12	6'	Black	18/3	SPT-2	\$2.95	\$2.59	\$2.29	\$1.95
1951123	MMPC	JVP	.40	12	6'	Black	18/3	SVT	2.95	2.75	2.59	2.25

\* Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service

\* JVP = Jameco ValuePro | ADT = Arndt Electronics | ZTK = Ziotek

# Open-Frame Switching AC-to-DC Power Supplies



## Open-Frame Switching AC-to-DC Power Supplies

- Universal AC input/full range
- Two-year warranty
- Short-circuit, overload and overvoltage protection



- † **PFC Model:**
- Built-in active Power Factor Correction function, power factor >0.93
  - Three-year warranty



PS-25



LPP-150



PT-45

For special versions and large quantities call us at 1-800-831-4242

Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz)	Size (L"xW"xH")	Mounting Holes (L"xW"xDia.")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	EFF (%)§	Certification	Pricing		
			Voltage @ Current (min-max)	Power									1	10	
* 3.3-5.5V Web Code: OFI			* 7.5-13.8V Web Code: OTW			Single Output						* 15-24V Web Code: OFT		* 27-54V Web Code: OFE	
2210722	Phihong	PSA25-105	+5V @ 0-4A	20W	100-240 @ 47-63	4.0x3.0x1.3	3.6x2.6x0.16	50	2.0	1.0	70	UL/CSA/DE	\$6.95	\$6.25	
2227583	Power One	BLP30-1005G	+5V @ 0-5A	25W	100-250 @ 50-60	4.0x2.0x1.0	3.7x1.7x0.15	100	2.0	1.0	70	UL/CUL/TUV/CE	6.75	5.89	
2227567	Power One	BLP40-1005G	+5V @ 0-5A	25W	100-250 @ 50-60	5.0x3.0x1.0	4.5x2.5x0.16	100	2.0	1.0	70	UL/CUL/TUV/CE	6.75	5.89	
212354	MEAN WELL	PS-25-5	+5V @ 0-5A	25W	100-250 @ 50-60	5.0x3.0x1.0	4.5x2.5x0.16	100	2.0	1.0	70	UL/CUL/TUV/CE	9.95	8.95	
217332	MEAN WELL	PS-45-5	+5V @ 0-8A	40W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	3.0	1.0	74	UL/CUL/TUV/CE	12.80	10.49	
2188772	UMEC	UP0401S-09	+9V @ 0-4.4A	40W	90-264 @ 47-63	4.0x3.0x1.0	3.6x2.6x0.2	100	1.0	1.0	70	UL/CSA/TUV	6.95	5.95	
2227559	Power One	BLP30-1012G	+12V @ 0-2.1A	25W	100-250 @ 50-60	4.0x2.0x1.0	3.7x1.7x0.15	100	2.0	1.0	70	UL/CUL/TUV/CE	6.75	5.89	
148604	MEAN WELL	PS-25-12	+12V @ 0-2.1A	25.2W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	100	2.0	0.3	78	UL/CUL/TUV/CE	11.50	9.49	
2164332	MEAN WELL	EPS-25-12	+12V @ 0-2.1A	25.2W	85-264 @ 47-63	3.0x2.0x1.0	2.8x1.8x0.13	100	0.5	0.5	86	UL/CUL/TUV/CE/CB	10.60	8.99	
2234724	MEAN WELL	PS-45-12 ✓	+12V @ 0-3.7A	44.4W	100-240 @ 50-60	5.0x3.0x1.1	4.6x2.6x0.2	100	2.0	1.0	76	UL/CUL/TUV/CE	8.95	7.95	
213728	MEAN WELL	PS-45-12	+12V @ 0-3.7A	44.4W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	2.0	1.0	76	UL/CUL/TUV/CE	11.25	10.49	
2248641	MEAN WELL	EPS-45S-12	+12V @ 0-3.8A	45.6W	80-264 @ 47-63	3.0x2.0x1.0	2.8x1.8x0.13	120	2.0	0.5	88	UL/CUL/TUV/CE/CB	12.10	10.15	
252401	MEAN WELL	LPS-50-12	+12V @ 0-4.2A	50.4W	90-264 @ 47-63	7.6x2.1x0.9	7.3x1.7x0.1	80	2.0	1.0	82	UL/CUL/TUV/CE	14.60	12.25	
2205413	Astrodyne	ASM60-1380**	+12V @ 0-5A	60W	100-240 @ 50-60	4.0x2.0x1.7	3.7x1.7x0.1	100	3.0	1.0	84	UL/CUL/TUV/CE	4.95	4.49	
2234716	MEAN WELL	PS-65-12 ✓	+12V @ 0-5.2A	62.4W	100-240 @ 50-60	5.0x3.0x1.7	4.5x2.5x0.15	100	2.0	1.0	79	UL/CUL/TUV/CE	9.95	8.95	
148639	MEAN WELL	PS-65-12	+12V @ 0-5.2A	62.4W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.15	100	2.0	1.0	79	UL/CUL/TUV/CE	12.25	10.95	
2099981	ITE	SBU60-105	+12V @ 0-5.25A	63W	90-264 @ 47-63	5.0x3.0x1.1	4.6x2.6x0.15	120	3.0	0.5	80	UL/CUL/CE	7.95	6.95	
2122044	MEAN WELL	ELP-75-12	+12V @ 0-6.25A	75W	90-264 @ 47-63	6.9x2.4x1.1	2.8x1.8x0.13	120	1.0	0.5	89	UL/CUL/TUV/CE/CB	26.60	22.29	
2239429	MEAN WELL	EPS-120-12	+12V @ 0-10A	120W	80-264 @ 47-63	4.0x2.0x1.1	2.8x1.8x0.13	120	1.0	0.5	88	UL/CUL/TUV/CE/CB	19.30	16.19	
213681	MEAN WELL	LPP-150-12 ↑	+12V @ 0-12.5A	150W	85-264 @ 47-63	8.7x2.4x1.6	8.3x2.6x0.15	100	1.0	0.5	79	UL/CUL/TUV/CE	28.80	24.15	
2210731	Phihong	PSA25-115	+15V @ 0-1.6A	24W	100-240 @ 47-63	4.0x3.0x1.3	3.6x2.6x0.16	150	2.0	1.0	70	UL/CSA/DE	4.49	3.95	
216751	MEAN WELL	PS-65-15	+15V @ 0-4.2A	63W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	79	UL/CUL/TUV/CE	14.00	11.95	
216670	MEAN WELL	LPP-100-15 ↑	+15V @ 0-6.7A	100W	85-264 @ 47-63	8.7x2.4x1.3	8.3x2.0x0.14	100	0.5	0.5	80	UL/CUL/TUV/CE	27.20	22.79	
2239728	MEAN WELL	EPS-120-15	+15V @ 0-8A	120W	80-264 @ 47-63	4.0x2.0x1.1	3.8x1.8x0.13	120	1.0	0.5	88	UL/CUL/TUV/CE/CB	19.30	16.19	
212346	MEAN WELL	PS-25-24	+24V @ 0-1A	24W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	240	2.0	0.2	79	UL/CUL/TUV/CE	11.49	9.75	
2227575	Power One	BLP40-1024G	+24V @ 0-1.1A	26.4W	100-250 @ 50-60	5.0x3.0x1.0	4.5x2.5x0.16	100	2.0	1.0	70	UL/CUL/TUV/CE	6.75	5.89	
148647	MEAN WELL	PS-65-24	+24V @ 0-2.7A	64.8W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	80	UL/CUL/TUV/CE	12.25	10.95	
301429	MEAN WELL	PPS-125-24	+24V @ 0-4.2A	100.8W	90-264 @ 47-440	5.0x3.0x1.4	4.5x2.6x0.14	150	1.0	0.5	83	UL/CUL/TUV/CE/CB	43.95	38.49	
2253888	MEAN WELL	EPP-400-24	+24V @ 0-10.5A	252W	80-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.14	200	1.0	0.5	93	UL/CUL/TUV/CE/CB	65.20	54.75	
668730	MEAN WELL	PPS-200-24 ↑	+24V @ 0-8.3A	199.2W	90-264 @ 47-63	5.0x3.0x1.4	3.7x7.8x0.14	150	1.0	0.5	89	UL/CUL/TUV/CE	47.49	44.95	
236882	MEAN WELL	LPP-100-27	+27V @ 0-3.8A	102.6W	85-264 @ 47-63	8.7x2.4x1.3	8.3x2.1x0.14	150	0.5	0.5	83	UL/CUL/TUV/CE/CB	27.20	22.79	
2100689	MEAN WELL	ASP-150-48	+48V @ 0-3.2A	153.6W	90-264 @ 47-63	6.7x2.1x1.1	4.2x2.0x0.7	89	0.5	0.5	89	UL/CUL/CE/CB	50.90	44.95	
Double Output													* Web Code: OFX		
212338	MEAN WELL	PD-25A	+5V @ 0.2-2.5A; +12V @ 0.1-1.5A	30.5W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.08x0.1	50;150	1.0	0.5	71	UL/CUL/TUV/CE	\$11.25	\$10.75	
375030	MEAN WELL	PT-45C	+5V @ 0-3A; +15 @ 1.6A; -15 @ 0.3A	43.5W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.15	50	3.0	1.0	75	UL/CUL/TUV/CE/CB	12.19	11.49	
194862	MEAN WELL	PD-45A	+5V @ 0.4-3.2A; +12V @ 0.2-2	40W	90-264 @ 47-440	5.0x2.5x1.5	4.5x2.5x0.2	50;120	3.0	1.0	77	UL/CSA	11.25	10.49	
2215697	Artesyn	NLP40-7629J	+5V @ 4A; +12V @ 0-2A	44W	90-264 @ 47-63	4.2x2.5x1.1	4.0x2.2x0.1	50;120	3.0	1.0	75	UL/CSA/CE	10.95	9.95	
2197741	Skynet	SNP-N563	+5V @ 1.0-8A; +3.3V @ 0.5-6A	60W	85-264 @ 47-63	5.0x3.0x1.1	4.6x2.6x0.2	50	3.0	1.0	70	UL	7.49	6.49	
194897	MEAN WELL	PD-65B	+5V @ 0.4-3.5A; +24V @ 0.2-2A	65.5W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	50;150	3.0	1.0	81	UL/CUL/TUV/CE	12.45	11.75	
148690	MEAN WELL	PD-2512	+12V @ 0.1-1.2A; -12V @ 0.1-1A	24W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	50	3.0	0.5	74	UL/CUL/TUV/CE	11.25	10.75	
2100857	MEAN WELL	PD-2515	+15V @ 0-1A, -15V @ 0-1A	30W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	50	3.0	0.5	75	UL/CUL/TUV/CE	11.25	10.75	
Triple Output													* Web Code: OFX		
2129676	Elpac	MSM40D**	+5.1V @ 0-4A; +24V @ 0-1A; -12V @ 0.4A	49.2W	100-240 @ 50-60	5.0x3.0x1.1	4.6x2.5x0.2	50	5.0	5.0	70	UL/CUL/CSA/CE	\$4.95	\$4.49	
88402	MEAN WELL	PT-45B	+5V @ 0.4-3A; +12V @ 0.2-2A; -12V @ 0-0.3A	42.6W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	50; 120;100	3.0	1.0	75	UL/CUL/TUV/CE	12.19	11.49	
216734	MEAN WELL	PT-65B	+5V @ 0.4-5.5A; +12V @ 0.2-2.5A -12V @ 0-0.5A	63.5W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50; 120;100	3.0	1.0	77	UL/CUL/TUV/CE	13.49	12.49	
216726	MEAN WELL	PT-65C	+5V @ 0.4-5.5A; +15V @ 0.2-2A; -15V @ 0-0.5A	65W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50; 120;100	3.0	1.0	77	UL/CUL/TUV/CE	13.49	12.49	
215707	MEAN WELL	PT-65D	+5V @ 0.5-5A; +12V @ 0.2-4A; +24V @ 0.2-1.3A	104.2W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50; 100;200	2.0	1.0	79	UL/CUL/TUV/CE	13.49	12.49	

\*Applies only to primary output    \*\*Medical rated    §Efficiency    ✓ With removeable Molex connectors (with wires)

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- Wide AC input range
- Manufacturer warranty varies



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★ 2.5-4.2V Web Code: ENT

★ 5-9V Web Code: ENF

★ 12-13.8V Web Code: ENW

★ 15-20V Web Code: ENI



SP-150



HRPG-150



HRP-300



RSP-1500



NES-75



SE-600

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L" x W" x H")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	EFF (%)§	PFC	Certification	Pricing	
			Voltage @ Current (min-max)	Power								1	10
Single Output													
2106685	MEAN WELL	RS-15-3.3	+3.3V @ 0-3A	9.9W	2.5 x 2.0 x 1.1	80	2.0	0.5	72	—	UL/CUL/TUV/CE/CB	\$7.40	\$6.19
1919043	MEAN WELL	RS-15-5	+5V @ 0-3A	15W	2.5 x 2.0 x 1.1	80	1.5	0.5	77	—	UL/CUL/TUV/CE/CB	7.40	6.19
323282	MEAN WELL	RS-25-5	+5V @ 0-5A	25W	3.1 x 2.0 x 1.1	80	1.0	0.5	77	—	UL/CUL/TUV/CE/CB	9.20	7.69
323329	MEAN WELL	RS-35-5	+5V @ 0-7A	35W	3.9 x 3.2 x 1.4	80	1	0.5	77	—	UL/CUL/TUV/CE	12.10	9.95
2257539	MEAN WELL	LRS-50-5	+5V @ 0-10A	50W	3.8 x 3.2 x 1.1	80	1.0	0.5	83	—	UL/CUL/TUV/CB/CE/CCC	11.70	9.75
323388	MEAN WELL	RS-50-5	+5V @ 0-10A	50W	3.9 x 3.8 x 1.4	80	1.0	0.5	78	—	UL/CUL/TUV/CE/CB	13.50	11.25
194791	MEAN WELL	SP-100-5	+5V @ 0-20A	100W	7.0 x 3.9 x 1.8	100	1.0	0.5	76	✓	UL/CUL/TUV/CE/CB	35.49	33.25
323821	MEAN WELL	RS-150-5	+5V @ 0-26A	130W	7.8 x 3.9 x 1.5	80	1.0	0.5	78	—	UL/CUL/TUV/CE/CB	23.40	19.49
123394	MEAN WELL	S-150-5	+5V @ 0-30A	150W	7.0 x 4.3 x 2.0	150	0.5	0.5	78	—	UL/CUL/TUV/CE/CB	39.95	36.95
201912	MEAN WELL	SP-150-5	+5V @ 0-30A	150W	7.0 x 3.9 x 2.0	100	1.0	0.5	75	✓	UL/CUL/TUV/CE/CB	39.49	36.95
2219719	MEAN WELL	LRS-200-5	+5V @ 0-40A	200W	8.4 x 4.5 x 1.1	150	2.0	0.5	83	—	UL/CUL	26.10	21.89
202042	MEAN WELL	SP-200-5	+5V @ 0-40A	200W	7.0 x 3.9 x 2.0	100	1.0	0.5	71	✓	UL/CUL/TUV/CE/CB	45.95	42.95
244735	MEAN WELL	SP-320-5	+5V @ 0-55A at 230VAC; 0-44A at 115VAC	275W	8.5 x 4.5 x 2.0	150	1.0	0.5	79	✓	UL/CUL/TUV/CE/CB	56.95	53.95
2219794	MEAN WELL	LRS-350-5	+5V @ 0-60A	300W	8.5 x 4.5 x 1.2	150	2	0.5	83.5	—	UL/CUL	32.90	27.59
2149562	MEAN WELL	SE-350-5	+5V @ 0-60A	300W	8.5 x 4.5 x 2.0	150	2.0	0.5	78	—	UL/CUL	40.95	37.95
2172068	MEAN WELL	RSP-320-5	+5V @ 0-60A	300W	8.5 x 4.5 x 1.2	150	1.0	0.5	85	✓	UL/CUL/TUV/CB/CE	48.40	40.49
374002	MEAN WELL	SE-600-5	+5V @ 0-100A	500W	9.7 x 5.0 x 2.5	150	2.0	0.5	78	—	UL/CUL	72.20	60.49
394215	MEAN WELL	SP-320-7.5	+7.5V @ 0-40A	300W	8.5 x 4.5 x 2.0	150	1.0	0.5	83	✓	UL/CUL/TUV/CE/CB	56.95	52.95
1919051	MEAN WELL	RS-15-12	+12V @ 0-1.3A	15.6W	2.5 x 2.0 x 1.1	120	0.5	0.5	81	—	UL/CUL/TUV/CE/CB	7.40	6.19
323300	MEAN WELL	RS-25-12	+12V @ 0-2.1A	25.2W	3.0 x 2.0 x 1.1	120	0.5	0.5	79	—	UL/CUL/TUV/CE/CB	9.20	7.69
123255	MEAN WELL	S-25-12	+12V @ 0-2.1A	25.2W	3.9 x 3.8 x 1.4	100	0.5	0.5	76	—	UL/TUV/CE	20.95	18.95
2257475	MEAN WELL	LRS-35-12	+12V @ 0-3A	36W	3.8 x 3.2 x 1.1	120	0.5	0.5	82	—	UL/CUL/TUV/CB/CE/CCC	10.40	8.85
323337	MEAN WELL	RS-35-12	+12V @ 0-3A	36W	3.9 x 3.2 x 1.4	120	0.5	0.5	81	—	UL/CUL/TUV/CE/CB	12.10	9.95
323396	MEAN WELL	RS-50-12	+12V @ 0-4.2A	50.4W	3.9 x 3.8 x 1.4	120	0.5	0.5	81	—	UL/CUL/TUV/CE/CB	13.50	11.25
2257547	MEAN WELL	LRS-50-12	+12V @ 0-4.2A	50.4W	3.8 x 3.2 x 1.1	120	0.5	0.5	86	—	UL/CUL/TUV/CB/CE/CCC	11.20	9.39
123335	MEAN WELL	S-60-12	+12V @ 0-5A	60W	6.3 x 3.8 x 1.5	120	0.5	0.5	76	—	UL/CUL/TUV/CE/CB	27.95	24.95
2257601	MEAN WELL	LRS-75-12	+12V @ 0-6A	72W	3.8 x 3.8 x 1.1	120	0.5	0.5	89	—	UL/CUL/TUV/CB/CE/CCC	13.50	11.29
323599	MEAN WELL	RS-75-12	+12V @ 0-6A	72W	5.1 x 3.9 x 1.5	120	0.5	0.5	81	—	UL/CUL/TUV/CE/CB	16.20	13.49
2257678	MEAN WELL	LRS-100-12	+12V @ 0-8.5A	102W	5.0 x 3.8 x 1.1	120	0.5	0.5	88	—	UL/CUL/TUV/CB/CE/CCC	15.10	12.59
2105017	MEAN WELL	NES-100-12	+12V @ 0-8.5A	102W	6.3 x 3.8 x 1.5	120	0.5	0.5	83	—	UL/CUL/CE/CB	17.49	16.95
323716	MEAN WELL	RS-100-12	+12V @ 0-8.5A	102W	6.3 x 3.8 x 1.5	120	0.5	0.5	81	✓	UL/CUL/TUV/CE/CB	21.80	18.19
123386	MEAN WELL	S-100F-12	+12V @ 0-8.5A	102W	7.8 x 3.9 x 1.5	125	0.5	0.5	80	—	UL/TUV/CE/CB	27.95	25.95
194803	MEAN WELL	SP-100-12	+12V @ 0-8.5A	102W	7.0 x 3.9 x 1.8	100	0.5	0.5	80	✓	UL/CUL/TUV/CE/CB	28.95	27.95
2257723	MEAN WELL	LRS-150-12	+12V @ 0-12.5A	150W	6.0 x 3.8 x 1.2	150	0.5	0.5	87.5	—	UL/CUL/TUV/CE	18.70	15.69
2257782	MEAN WELL	LRS-150F-12	+12V @ 0-12.5A	150W	6.3 x 3.8 x 1.2	150	0.5	0.5	87.5	—	UL/CUL/TUV/CE/CB	20.90	17.55
323839	MEAN WELL	RS-150-12	+12V @ 0-12.5A	150W	7.8 x 3.9 x 1.5	120	0.5	0.5	83	—	UL/CUL/TUV/CE/CB	23.40	19.49
123423	MEAN WELL	S-150-12	+12V @ 0-12.5A	150W	7.0 x 4.3 x 2.0	180	0.3	0.3	82	—	UL/CUL/TUV/CE/CB	39.95	36.95
173421	MEAN WELL	SP-150-12	+12V @ 0-12.5A	150W	7.0 x 3.9 x 2.0	100	0.5	0.5	80	✓	UL/CUL/TUV/CE/CB	39.49	36.95
194774	MEAN WELL	SP-200-12	+12V @ 0-16.7A	200.4W	7.0 x 3.9 x 2.0	100	0.5	0.5	79	✓	UL/CUL/TUV/CE/CB	45.95	42.95
2219727	MEAN WELL	LRS-200-12	+12V @ 0-17A	204W	8.5 x 4.5 x 1.2	150	1	0.5	87.5	—	UL/CUL	24.80	20.95
2101497	MEAN WELL	SP-240-12	+12V @ 0-20A	240W	7.5 x 3.7 x 2.0	150	0.5	0.3	86	✓	UL/CUL/TUV/CE/CB	50.90	42.95
244743	MEAN WELL	SP-320-12	+12V @ 0-25A at 230VAC; 0-20A @ 115VAC	300W	8.5 x 4.5 x 2.0	150	0.5	0.3	86	✓	UL/CUL/TUV/CE/CB	56.95	52.95
2102203	MEAN WELL	HRP-300-12	+12V @ 0-27A	324W	7.8 x 4.1 x 1.6	120	0.5	0.3	88	✓	UL/CUL/TUV/CE/CB	68.90	57.75
2219807	MEAN WELL	LRS-350-12	+12V @ 0-29A	348W	8.5 x 4.5 x 1.2	150	1.0	0.5	85	—	UL/CUL	31.10	25.95
2149503	MEAN WELL	SE-350-12	+12V @ 0-29A	348W	8.5 x 4.5 x 2.0	150	1.0	0.5	83	—	UL/CUL	40.95	37.95
2094928	MEAN WELL	SE-450-12	+12V @ 0-37.5A	450W	8.9 x 4.9 x 2.0	200	1.0	0.5	83	✓	UL/CUL	58.50	48.95
374011	MEAN WELL	SE-600-12	+12V @ 0-50A	600W	9.7 x 5.0 x 2.5	150	0.5	0.5	83	—	UL/CUL	72.20	60.49
374214	MEAN WELL	PSP-600-12	+12V @ 0-50A	600W	6.7 x 4.7 x 3.7	240	0.5	0.5	84	✓	UL/CUL/TUV/CE/CB	119.00	99.95
2101542	MEAN WELL	SE-1000-12	+12V @ 0-83.3A	999.6W	10.9 x 5.0 x 2.5	150	0.5	0.5	85	—	UL/CUL	157.00	131.75
694911	MEAN WELL	RSP-1500-12	+12V @ 0-125A	1500W	10.9 x 5.0 x 3.3	150	0.5	0.5	87	✓	EN/TUV/UL	297.00	249.49
212410	MEAN WELL	SP-200-13.5	+13.5V @ 0-14.9A	201.1W	7.0 x 3.9 x 2.0	100	0.5	0.5	80	✓	UL/CUL/TUV/CE/CB	50.90	42.95
693599	MEAN WELL	SP-320-13.5	+13.5V @ 0-22A	297W	8.5 x 4.5 x 2.0	150	0.5	0.3	86	✓	UL/CUL/TUV/CE/CB	63.00	52.95
2106079	MEAN WELL	PSP-600-13.5	+13.5V @ 0-44.5A	600W	6.7 x 4.7 x 3.7	240	0.5	0.5	85	✓	UL/CUL/TUV/CE/CB	119.00	94.95
2105439	MEAN WELL	AD-155A†	+13.8V @ 0-11.5A or 13.3V @ 0-0.5A	145W	7.8 x 4.3 x 2.0	150	0.5	0.5	80	✓	UL/CUL/TUV/CE/CB	46.95	44.95
323302	MEAN WELL	RS-25-15	+15V @ 0-1.7A	25.5W	3.0 x 2.0 x 1.1	120	0.5	0.5	82	—	UL/CUL/TUV/CE/CB	9.20	7.69
323345	MEAN WELL	RS-35-15	+15V @ 0-2.4A	36W	3.9 x 3.2 x 1.4	120	0.5	0.5	83	—	UL/CUL/TUV/CE/CB	12.10	9.95
323409	MEAN WELL	RS-50-15	+15V @ 0-4A	60W	3.9 x 3.8 x 1.4	120	0.5	0.5	88	—	UL/CUL/TUV/CB/CE/CCC	13.50	11.25

\*Applies only to primary output

†UPS function

§ Efficiency

# Enclosed Switching AC-to-DC Power Supplies

Jameco carries the full line of MEAN WELL Power products. For additional products visit [www.jameco.com/meanwellproducts](http://www.jameco.com/meanwellproducts)

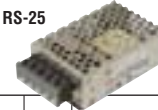


## Enclosed Switching AC-to-DC Power Supplies (Continued)

• 100% full-load burn-in test • Wide AC input range • Manufacturer warranty varies



RS-25



\*15-20V Web Code: ENI

\*24-30V Web Code: ENE

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L" x W" x H")	Ripple & Noise (mV p-p) *	Load Reg. (±%) *	Line Reg. (±%) *	EFF (%) §	PFC	Certification	Pricing	
			Voltage @ Current (min-max)	Power								1	10
Single Output (Continued)													
323602	MEAN WELL	RS-75-15	+15V @ 0-5A	75W	5.1 x 3.9 x 1.5	120	0.5	0.5	82	—	UL/CUL/TUV/CE/CB	\$16.20	\$13.49
2257686	MEAN WELL	LRS-100-15	+15V @ 0-7A	105W	5.1 x 3.82 x 1.2	120	0.5	0.5	88.5	—	UL/CUL/TUV/CB/CE/CCC	15.10	12.59
323724	MEAN WELL	RS-100-15	+15V @ 0-7A	105W	6.3 x 3.8 x 1.5	120	0.5	0.5	82	—	UL/CUL/TUV/CE/CB	21.80	18.19
2257791	MEAN WELL	LRS-150F-15 *	+15V @ 0-10A	150W	6.3 x 2.7 x 1.5	150	0.5	0.5	89	—	UL/CUL/TUV/CB/CE/CCC	20.90	17.55
323847	MEAN WELL	RS-150-15	+15V @ 0-10A	150W	7.8 x 3.9 x 1.5	120	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	23.40	19.49
123432	MEAN WELL	S-150-15	+15V @ 0-10A	150W	7.0 x 4.3 x 2.0	180	0.3	0.3	85	—	UL/CUL/TUV/CE/CB	39.95	36.95
693610	MEAN WELL	SP-320-15	+15V @ 0-20A	300W	8.5 x 4.5 x 2.0	150	0.5	0.3	86	✓	UL/CUL/TUV/CE/CB	56.95	52.95
291522	MEAN WELL	SE-600-15	+15V @ 0-40A	600W	9.7 x 5.0 x 2.5	150	0.5	0.5	84	—	UL/CUL	72.20	60.49
694920	MEAN WELL	RSP-1500-15	+15V @ 0-100A	1500W	10.9 x 5.0 x 3.3	150	0.5	0.5	87	✓	UL/CUL/TUV/CE/CB	297.00	249.49
1919078	MEAN WELL	RS-15-24	+24V @ 0-0.625A	15W	2.5 x 2.0 x 1.1	200	0.5	0.5	82	—	UL/CUL/TUV/CE/CB	7.40	6.19
323311	MEAN WELL	RS-25-24	+24V @ 0-1.1A	26.4W	3.0 x 2.0 x 1.1	120	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	9.20	7.69
123272	MEAN WELL	S-25-24	+24V @ 0-1.1A	26.4W	3.9 x 3.8 x 1.4	100	0.5	0.5	80	—	UL/TUV/CE	20.95	18.95
2257491	MEAN WELL	LRS-35-24	+24V @ 0-1.5A	36W	3.9 x 3.2 x 1.2	150	0.5	0.5	88	—	UL/CUL/TUV/CB/CE/CCC	9.90	8.25
323353	MEAN WELL	RS-35-24	+24V @ 0-1.5A	36W	3.9 x 3.2 x 1.4	120	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	12.10	9.95
123319	MEAN WELL	S-40-24	+24V @ 0-1.8A	43W	5.1 x 3.9 x 1.5	100	0.5	0.5	78	—	UL/CUL/TUV/CE/CB	19.95	18.95
323417	MEAN WELL	RS-50-24	+24V @ 0-2.2A	52.8W	3.9 x 3.8 x 1.4	120	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	13.50	11.25
2257563	MEAN WELL	LRS-50-24	+24V @ 0-2.2A	52.8W	3.9 x 3.8 x 1.4	150	0.5	0.5	88	—	UL/CUL/TUV/CB/CE/CCC	10.60	8.95
123352	MEAN WELL	S-60-24	+24V @ 0-2.5A	60W	6.3 x 3.8 x 1.5	150	0.5	0.5	79	—	UL/CUL/TUV/CE/CB	27.95	24.95
2257627	MEAN WELL	LRS-75-24	+24V @ 0-3.2A	76.8W	3.9 x 3.8 x 1.2	150	0.5	0.5	90	—	UL/CUL/TUV/CB/CE/CCC	12.80	10.75
323620	MEAN WELL	RS-75-24	+24V @ 0-3.2A	76.8W	5.1 x 3.9 x 1.5	120	0.5	0.5	85	—	UL/CUL/TUV/CE/CB	16.20	13.49
2257694	MEAN WELL	LRS-100-24	+24V @ 0-4.5A	108W	5.1 x 3.8 x 1.2	150	0.5	0.5	90	—	UL/CUL/TUV/CB/CE/CCC	14.40	12.09
323732	MEAN WELL	RS-100-24	+24V @ 0-4.5A	108W	6.3 x 3.8 x 1.5	120	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	21.80	18.19
201971	MEAN WELL	S-100F-24	+24V @ 0-4.5A	108W	7.8 x 3.9 x 1.5	150	0.5	0.5	83	—	UL/TUV/CE/CB	32.95	29.95
173404	MEAN WELL	SP-150-24	+24V @ 0-6.25A	150W	7.0 x 3.9 x 2.0	150	0.5	0.5	83	✓	UL/CUL/TUV/CE/CB	39.49	36.95
2257740	MEAN WELL	LRS-150-24	+24V @ 0-6.5A	156W	6.0 x 3.8 x 1.2	200	0.5	0.5	89	—	UL/CUL/TUV/CE	17.60	14.75
2257803	MEAN WELL	LRS-150F-24	+24V @ 0-6.5A	156W	6.3 x 3.8 x 1.2	200	0.5	0.5	89	—	UL/CUL/TUV/CE/CB	19.80	16.75
323855	MEAN WELL	RS-150-24	+24V @ 0-6.5A	156W	7.8 x 3.9 x 1.5	120	0.5	0.5	86	—	UL/CUL/TUV/CE/CB	23.40	19.49
123450	MEAN WELL	S-150-24	+24V @ 0-6.5A	156W	7.0 x 4.3 x 2.0	240	0.2	0.2	85	—	UL/CUL/TUV/CE/CB	39.95	36.95
2094864	MEAN WELL	HRPG-150-24	+24V @ 0-6.5A	156W	6.3 x 3.8 x 1.5	150	0.5	0.3	87	✓	UL/CUL/TUV/CE/CB	52.00	43.65
194782	MEAN WELL	SP-200-24	+24V @ 0-8.4A	201.6W	7.0 x 3.9 x 2.0	150	0.5	0.5	83	✓	UL/CUL/TUV/CE/CB	45.95	42.95
2219743	MEAN WELL	LRS-200-24	+24V @ 0-8.8A	211.2W	8.5 x 4.5 x 1.2	150	0.5	0.5	89.5	—	UL/CUL	23.40	19.75
2101518	MEAN WELL	SP-240-24	+24V @ 0-10A	240W	7.5 x 3.7 x 2.0	150	0.5	0.2	87	✓	UL/CUL/TUV/CE/CB	45.95	42.95
244752	MEAN WELL	SP-320-24	+24V @ 0-13A	312W	8.5 x 4.5 x 2.0	150	0.5	0.2	87	✓	UL/CUL/TUV/CE/CB	56.95	52.95
2102220	MEAN WELL	HRP-300-24	+24V @ 0-14A	336W	7.7 x 4.1 x 1.6	150	0.5	0.2	87	✓	UL/CUL/TUV/CE/CB	68.90	57.75
2219823	MEAN WELL	LRS-350-24	+24V @ 0-14.6A	350.4W	8.5 x 4.5 x 1.2	150	0.5	0.5	88	—	UL/CUL	29.90	24.95
2146564	MEAN WELL	SE-350-24	+24V @ 0-14.6A	350.4W	8.5 x 4.5 x 2.0	150	0.5	0.5	87	—	UL/CUL	41.25	37.95
2101606	MEAN WELL	SE-450-24	+24V @ 0-18.8A	451.2W	8.9 x 4.9 x 2.0	200	0.5	0.2	86	—	UL/CUL	58.50	48.95
2122335	MEAN WELL	HRP-450-24	+24V @ 0-18.8A	451.2W	8.6 x 4.1 x 1.6	150	0.5	0.2	88	✓	UL/CUL/TUV/CE/CB	111.00	93.19
301322	MEAN WELL	SP-480-24	+24V @ 0-20A	480W	10.9 x 5.0 x 1.7	150	0.5	0.2	87	✓	UL/CUL/TUV/CE/CB	123.95	115.95
147054	MEAN WELL	SP-500-24	+24V @ 0-20A	480W	6.7 x 4.7 x 3.7	240	0.5	0.5	85.5	✓	UL/CUL/TUV/CE/CB	138.95	129.95
2197994	MEAN WELL	RSP-500-24	+24V @ 0-21A	504W	9.1 x 5.0 x 1.6	150	0.5	0.2	89	✓	UL/CUL/TUV/CE/CB	86.40	72.49
295902	MEAN WELL	SE-600-24	+24V @ 0-25A	600W	9.7 x 5.0 x 2.5	150	0.5	0.5	87	—	UL/CUL	72.20	61.25
374231	MEAN WELL	PSP-600-24	+24V @ 0-25A	600W	6.7 x 4.7 x 3.7	240	0.5	0.5	86	✓	UL/CUL/TUV/CE/CB	119.00	94.95
2100961	MEAN WELL	HRP-600-24	+24V @ 0-27A	648W	8.6 x 4.1 x 2.5	150	0.5	0.2	88	✓	UL/CUL/TUV/CE/CB	115.00	97.75
2172121	MEAN WELL	RSP-750-24	+24V @ 0-31.3A	751.2W	9.8 x 5.0 x 1.6	150	0.5	0.5	90.5	✓	EN/TUV/UL	169.00	141.95
320048	MEAN WELL	SP-750-24	+24V @ 0-31.3A	751.2W	10.9 x 5.0 x 2.5	120	0.5	0.2	89	✓	UL/CUL/TUV/CE/CB	185.49	173.95
1585717	MEAN WELL	RSP-1000-24	+24V @ 0-40A	960W	11.6 x 5.0 x 1.6	150	0.5	0.5	88	✓	UL/CUL/TUV/CE/CB	200.00	167.95
2101569	MEAN WELL	SE-1000-24	+24V @ 0-41.7A	1000.8W	10.9 x 5.0 x 2.5	200	0.5	0.5	88	—	UL/CUL	157.00	131.75
694938	MEAN WELL	RSP-1500-24	+24V @ 0-63A	1512W	10.9 x 5.0 x 3.3	150	0.5	0.5	90	✓	UL/CUL/TUV/CE/CB	297.00	249.49
693513	MEAN WELL	SP-150-27	+27V @ 0-5.6A	151.2W	7.8 x 3.9 x 2.0	15	0.5	0.5	84	—	UL/CUL/CE/CB/PFC	39.49	38.49
693548	MEAN WELL	SP-200-27	+27V @ 0-7.5A	202.5W	7.0 x 3.9 x 2.0	150	0.5	0.5	83	✓	UL/CUL/TUV/CE/CB	49.95	42.95
693628	MEAN WELL	SP-320-27	+27V @ 0-11.7A	315.9W	8.5 x 4.5 x 2.0	200	0.5	0.2	88	✓	UL/CUL/TUV/CE/CB	56.95	52.95
190706	MEAN WELL	SP-500-27	+27V @ 0-18A	486W	6.7 x 4.7 x 3.7	200	0.5	0.5	86.5	✓	UL/CUL/TUV/CE/CB	169.95	151.95
295911	MEAN WELL	SE-600-27	+27V @ 0-22.2A	599.4W	9.7 x 5.0 x 2.5	150	0.5	0.5	87	—	UL/CUL	72.20	60.49
374257	MEAN WELL	PSP-600-27	+27V @ 0-22.2A	599.4W	6.7 x 4.7 x 3.7	240	0.5	0.5	86	✓	UL/CUL/TUV/CE/CB	119.00	94.95
1585709	MEAN WELL	RSP-1000-27	+27V @ 0-37.0A	999W	11.6 x 5.0 x 1.6	150	0.5	0.5	88	✓	UL/CUL/TUV/CE/CB	200.00	167.95
694946	MEAN WELL	RSP-1500-27	+27V @ 0-56A	1512W	10.9 x 5.0 x 3.3	150	0.5	0.5	90	✓	UL/CUL/TUV/CE/CB	297.00	249.49
2146118	MEAN WELL	AD-155B	+27.6V @ 0-5.5A or 27.1V @ 0-0.5A	152W	7.8 x 4.3 x 2.0	150	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	46.95	44.95
2102473	MEAN WELL	SP-240-30	+30V @ 0-8A	240W	7.5 x 3.7 x 2.0	150	0.5	0.2	88	✓	UL/CUL/TUV/CE/CB	45.95	42.95

\*Applies only to primary output

§ Efficiency

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# Enclosed Switching AC-to-DC Power Supplies

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY



## Enclosed Switching AC-to-DC Power Supplies (Continued)

- 100% full-load burn-in test
- Wide AC input range
- Manufacturer warranty varies



SP-200



\* 36-54V Web Code: ENH

\* Multiple Output WC: ENM

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L" x W" x H")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	EFF (%)§	PFC	Certification	Pricing	
			Voltage @ Current (min-max)	Power								1	10
Single Output (Continued)													
2102730	MEAN WELL	SP-320-36	+36V @ 0-8.8A	316.8W	8.5 x 4.5 x 2.0	220	0.5	0.2	87	✓	UL/CUL/TUV/CE/CB	\$63.00	\$52.95
693206	MEAN WELL	RS-25-48	+48V @ 0-0.57A	27.4W	3.1 x 2.0 x 1.1	200	0.5	0.5	85	—	UL/CUL/TUV/CE/CB	9.20	7.69
693290	MEAN WELL	RS-100-48	+48V @ 0-2.3A	110.4W	6.3 x 3.8 x 1.5	200	0.5	0.5	84	—	UL/CUL/TUV/CE/CB	21.80	18.19
201930	MEAN WELL	SP-150-48	+48V @ 0-3.2A	153.6W	7.0 x 3.9 x 2.0	250	0.5	0.5	83	✓	UL/CUL/TUV/CE/CB	39.49	36.95
323863	MEAN WELL	RS-150-48	+48V @ 0-3.3A	158.4W	7.8 x 3.9 x 1.5	200	0.5	0.5	87	—	UL/CUL/TUV/CE/CB	23.40	19.49
202068	MEAN WELL	SP-200-48	+48V @ 0-4.2A	201.6W	7.0 x 3.9 x 2.0	250	0.5	0.5	84	✓	UL/CUL/TUV/CE/CB	50.90	42.95
2102481	MEAN WELL	SP-240-48	+48V @ 0-5A	240W	7.5 x 3.7 x 2.0	150	0.5	0.2	89	✓	UL/CUL/TUV/CE/CB	45.95	43.25
2229466	Arndt	SP-300-48	+48V @ 0-6.25A	300W	8.1 x 4.5 x 2.0	240	0.5	0.2	85	✓	UL/CUL/TUV/CE	36.95	33.94
244770	MEAN WELL	SP-320-48	+48V @ 0-6.7A	321.6W	8.5 x 4.5 x 2.0	240	0.5	0.2	89	✓	UL/CUL/TUV/CE/CB	56.95	53.49
2219840	MEAN WELL	LRS-350-48	+48V @ 0-7.3A	350W	8.5 x 4.5 x 1.2	200	0.5	0.5	89	—	UL/CUL	31.10	25.95
2149554	MEAN WELL	SE-350-48	+48V @ 0-7.3A	350W	8.5 x 4.5 x 2.0	240	0.5	0.5	87.5	—	UL/CUL	40.95	37.95
2231558	Arndt	S-400-48	+48V @ 0-8.3A	400W	7.5 x 4.5 x 1.9	150	0.5	0.5	83	—	CE	39.95	34.95
2105164	MEAN WELL	SE-450-48	+48V @ 0-9.4A	451.2W	8.9 x 4.9 x 2.0	200	0.5	0.2	88	—	UL/CUL	58.50	48.95
161796	MEAN WELL	SP-500-48	+48V @ 0-10A	480W	6.7 x 4.7 x 3.7	300	0.5	0.5	87	✓	UL/CUL/TUV/CE/CB	138.95	132.95
295929	MEAN WELL	SE-600-48	+48V @ 0-12.5A	600W	9.7 x 5.0 x 2.5	200	0.5	0.5	88	—	UL/CUL	72.20	60.49
374249	MEAN WELL	PSP-600-48	+48V @ 0-12.5A	600W	6.7 x 4.7 x 3.7	240	0.5	0.5	87	✓	UL/CUL/TUV/CE/CB	119.00	94.95
2101577	MEAN WELL	SE-1000-48	+48V @ 0-20.8A	998.4W	10.9 x 5.0 x 2.5	200	0.5	0.5	89	—	UL/CUL	157.00	131.75
1585725	MEAN WELL	RSP-1000-48	+48V @ 0-21.0A	1008W	11.6 x 5.0 x 1.6	150	0.5	0.5	90	✓	UL/CUL/TUV/CE/CB	200.00	167.95
694954	MEAN WELL	RSP-1500-48	+48V @ 0-32.0A	1536W	10.9 x 5.0 x 3.3	200	0.5	0.5	91	✓	UL/CUL/TUV/CE/CB	297.00	249.49
2108921	MEAN WELL	RSP-3000-48	+48V @ 0-62.5A	3000W	10.9 x 7.0 x 2.5	200	0.5	0.5	90.5	✓	UL/CUL/TUV/CE/CB	410.00	343.95
Double Output													
323362	MEAN WELL	RD-35A	+5V @ 0.3-4A; +12V @ 0.2-1A	32W	3.9 x 3.2 x 1.4	80	0.5	0.5	79	—	UL/CUL/TUV/CE/CB	\$11.95	\$10.95
323380	MEAN WELL	RD-35B	+5V @ 0.3-4A; +24V @ 0.2-1.3A	51.2W	3.9 x 3.2 x 1.4	80	0.5	0.5	82	—	UL/CUL/TUV/CE/CB	11.95	10.95
323425	MEAN WELL	RD-50A	+5V @ 0.3-6A; +12V @ 0.3-3A	54W	3.9 x 3.8 x 1.4	80	0.5	0.5	79	—	UL/CUL/TUV/CE/CB	14.49	12.95
323433	MEAN WELL	RD-50B	+5V @ 0.3-6A; +24V @ 0.2-2A	54W	3.9 x 3.8 x 1.4	80	0.5	0.5	80	—	UL/CUL/TUV/CE/CB	14.49	12.95
323505	MEAN WELL	RD-65A	+5V @ 0.3-8A; +12V @ 0.2-4A	66W	5.1 x 3.9 x 1.5	80	0.5	0.5	79	—	UL/CUL/TUV/CE/CB	15.95	14.49
323513	MEAN WELL	RD-65B	+5V @ 0.3-8A; +24V @ 0.2-3A	68W	5.1 x 3.9 x 1.5	80	0.5	0.5	78	—	UL/CUL/TUV/CE/CB	15.95	14.49
323741	MEAN WELL	RD-125A	+5V @ 2.0-15A; +12V @ 0.5-10A	130.9W	7.8 x 3.9 x 1.5	80	3.0	1.0	82	—	UL/CUL/TUV/CE/CB	23.25	22.95
323759	MEAN WELL	RD-125B	+5V @ 2.0-10A; +24V @ 0.4-5A	133.4W	7.8 x 3.9 x 1.5	80	3.0	1.0	82	—	UL/CUL/TUV/CE/CB	24.95	22.95
2106124	MEAN WELL	RD-125-1224	+12V @ 1.0-3.7A; +24V @ 0.4-3.7A	133.2W	7.8 x 3.9 x 1.5	120	1.0	0.5	85	—	UL/CUL/TUV/CE/CB	24.95	22.95
Triple Output													
323460	MEAN WELL	RT-50B	+5V @ 0.5-4A; +12V @ 0.2-2A; -12V @ 0.1-0.5A	50W	3.9 x 3.8 x 1.4	80	1.0	0.5	77	—	UL/CUL/TUV/CE/CB	\$15.49	\$14.49
323468	MEAN WELL	RT-50C	+5V @ 0-4A; +15V @ 0.2-1.5A; -15V @ 0.1-0.5A	50W	3.9 x 3.8 x 1.4	80	1.0	0.5	78	—	UL/CUL/TUV/CE/CB	15.49	14.49
323476	MEAN WELL	RT-50D	+5V @ 0.5-5A; +12V @ 0.1-1A; +24V @ 0.2-1.5A	51W	3.9 x 3.8 x 1.4	80	1.0	0.5	80	—	UL/CUL/TUV/CE/CB	15.49	14.49
123482	MEAN WELL	T-60B	+5V @ 0.5-5A; +12V @ 0.2-2.5A; -12V @ 0-0.5A	61W	6.3 x 3.8 x 1.5	100	1.0	0.5	72	—	UL/CUL/TUV/CE/CB	33.95	30.95
323540	MEAN WELL	RT-65B	+5V @ 0.5-8A; +12V @ 0.2-3.5A; -12V @ 0-1A	64.6W	5.1 x 3.9 x 1.5	80	1.0	0.5	77	—	UL/CUL/TUV/CE/CB	17.49	16.49
323548	MEAN WELL	RT-65C	+5V @ 0.5-8A; +15V @ 0.2-3A; -15V @ 0-1A	65.5W	5.1 x 3.9 x 1.5	80	1.0	0.5	78	—	UL/CUL/TUV/CE/CB	17.49	16.49
323555	MEAN WELL	RT-65D	+5V @ 0.5-8A; +12V @ 0.1-1A; +24V @ 0.2-2A	68W	5.1 x 3.9 x 1.5	80	1.0	0.5	79	—	UL/CUL/TUV/CE/CB	17.49	16.49
323775	MEAN WELL	RT-125B	+5V @ 2-15A; +12V @ 0.5-6A; -12V @ 0.1-1A	132W	7.8 x 3.9 x 1.5	80	1.0	0.5	80	—	UL/CUL/TUV/CE/CB	26.49	25.49
323783	MEAN WELL	RT-125C	+5V @ 2-15A; +15V @ 0.5-6A; -15V @ 0.1-1A	132.5W	7.8 x 3.9 x 1.5	80	1.0	0.5	81	—	UL/CUL/TUV/CE/CB	26.49	25.49
323792	MEAN WELL	RT-125D	+5V @ 2-15A; +12V @ 0.1-2A; +24V @ 0.4-4A	136W	7.8 x 3.9 x 1.5	80	1.0	0.5	82	—	UL/CUL/TUV/CE/CB	26.49	25.49
Quad Output													
323484	MEAN WELL	RQ-50B	+5V @ 0.5-5A; +12V @ 0.2-1.0A; -5V @ 0-0.5A; -12V @ 0-0.5A	45.5W	3.9 x 3.8 x 1.4	80	0.5	0.5	74	—	UL/CUL/TUV/CE/CB	\$16.95	\$15.95
323564	MEAN WELL	RQ-65B	+5V @ 0.5-6A; +12V @ 0.2-2A; -5V @ 0.1-0.5A; -12V @ 0-0.5A	62.5W	5.1 x 3.9 x 1.5	80	0.5	0.5	76	—	UL/CUL/TUV/CE/CB	18.49	17.49
323572	MEAN WELL	RQ-65D	+5V @ 0.5-4A; +12V @ 0.2-1.5A; +24V @ 0.1-1A; -12V @ 0-0.5A	68W	5.1 x 3.9 x 1.5	80	0.5	0.5	78	—	UL/CUL/TUV/CE/CB	18.49	17.49
323812	MEAN WELL	RQ-125D	+5V @ 2-8A; +12V @ 0.5-2.5A; +24V @ 0.1-2A; -12V @ 0-0.5A	124W	7.8 x 3.9 x 1.5	80	1.0	0.5	82	—	UL/CUL/TUV/CE/CB	28.95	26.95
213648	MEAN WELL	QP-150F	+5V @ 3-10A; +15V @ 0-3A; +24V @ 0.4-2A; -15V @ 0-0.6A	152W	7.8 x 3.9 x 1.5	120	2.0	1.0	78	✓	UL/CUL/TUV/CE/CB	77.49	74.49
213752	MEAN WELL	QP-200D	+5V @ 3-15A; +12V @ 0-4A +24V @ 0.4-3A; -12V @ 0-0.7A	204.9W	7.8 x 3.9 x 2.0	100	2.0	1.0	75	✓	UL/CUL/TUV/CE/CB	81.49	77.49
668764	MEAN WELL	QP-320D	+5V @ 2.5-20A; +12V @ 0-10A; +24V @ 0.2-3A; -12V @ 0.2-2A	316W	8.5 x 4.5 x 2.0	100	2.0	1.0	83	✓	UL/CUL/TUV/CE	103.49	97.95

\*Applies only to primary output

§ Efficiency



# LED Enclosed Power Supplies & Mounting Brackets

Jameco carries the full line of MEAN WELL Power products. For additional products visit [www.jameco.com/meanwellproducts](http://www.jameco.com/meanwellproducts)



## LED Enclosed Power Supplies

For Indoor and Outdoor Applications

- Suitable for LED lighting and moving sign application
- 100% full-load burn-in test
- Cooling by free air convection
- UL1310 class 2 power unit
- Short-circuit/overload/overvoltage/overtemperature protection
- Universal AC input/full range



CLG Series

FEATURES	MEAN WELL Series						
	APV	CLG	LPC/LPV/PLN	HLG	LPF	PLC	PLP
Case	Plastic	Metal	Plastic	Metal	Plastic	Plastic	Plastic
Working Temp. (°C)	-30 to 70	-30 to 70	-30 to 50	-30 to 70	-35 to 70	-30 to 50	-30 to 60
Voltage (CV or AV) §	CV	AV	CV	AV	CV	AV	CV
Current (CC or AC) §	AC	AC	CC	CC	CC	AC	CC
Inrush Curr. (A/VAC)	70/230	40/230	40/230	75/230	45/230	40/230	40/230
PFC Function	—	✓	—	✓	✓	✓	✓
Warranty	2 Year	3 Year	2 Year	7 Year	5 Year	2 Year	2 Year

§ CV: constant voltage; AV: adjustable voltage; CC: constant current; AC: adjustable current

\* 2-14.5V Web Code: LTW

\* 15-23V Web Code: LTF

\* 24-35V Web Code: LTR

\* 36-45.6V Web Code: LTS

\* 48-216V Web Code: LFE



Part No.	Manufacturer	Mfr. Part No.	Output		Input Voltage (VAC @ Hz)	Size (L" x W" x H")	Enclosure Rating	Load Reg. (±%) *	Line Reg. (±%) *	Certification	Pricing	
			Voltage @ Current (min-max)	Power (W)							1	10
2234783	EPtronics	LD40W-12-C3330	+4-12V @ 0-3.33A	40	90-305 @ 50-60	3.7 x 2.7 x 1.2	IP66	4.0	3.0	UL/CUS/CE	\$11.95	\$10.95
2234775	EPtronics	LD30W-24-C1250	+8-24V @ 0-1.25A	30	90-305 @ 47-63	5.2 x 1.6 x 1.0	IP66	4.0	3.0	UL/CUS/CE	7.95	6.95
2234767	EPtronics	LD100W-24-C4200	+8-24V @ 0-4.2A	100	90-305 @ 47-63	6.5 x 2.8 x 1.8	IP66	4.0	2.0	UL/CUS/CE	35.95	32.49
2101315	MEAN WELL	LPG-60-1400	+9-42V @ 0-1.4A	59.5	90-264 @ 47-63	6.4 x 1.7 x 1.3	IP67	2.0	1.0	EN/IP/TUV/UL	14.00	11.95
2142061	MEAN WELL	APV-12-12	+12V @ 0-1A	12	90-264 @ 47-63	3.0 x 1.6 x 1.1	—	2.0	1.0	CE	5.80	4.59
2102596	MEAN WELL	LPV-20-12	+12V @ 0-1.67A	20	90-264 @ 47-63	4.6 x 1.4 x 1.0	IP67	2.0	1.0	UL/CUL/TUV/CSA/CE	8.80	7.45
2103142	MEAN WELL	LPV-35-12	+12V @ 0-3A	36	90-264 @ 47-63	5.8 x 1.6 x 1.2	IP67	2.0	1.0	UL/CUL/TUV/CSA/CE	12.60	10.49
2103169	MEAN WELL	LPV-60-12	+12V @ 0-5A	60	90-264 @ 47-63	6.4 x 1.7 x 1.3	IP67	2.0	1.0	UL/CUL/TUV/CSA/CE	14.00	11.49
1918913	MEAN WELL	PLN-60-12	+12V @ 0-5A	60	90-295 @ 47-63	7.1 x 2.4 x 1.4	IP64	5.0	3.0	UL/CUL/TUV/CE/PFC	31.50	26.39
2226290	MEAN WELL	APV-8-12	+12V @ 0-0.67 A	8	90-264 @ 47-63	2.4 x 1.2 x 1.0	2	1	IP42	UL/CUL/CE/CCC	4.70	3.89
2133131	MEAN WELL	LPV-100-12	+12V @ 0-8.5A	102	90-264 @ 47-63	7.5 x 2.0 x 1.5	IP67	2	1.0	CE	23.00	18.95
2215259	MEAN WELL	LPV-150-12	+12V @ 0-10A	120	180-305 @ 47-63	7.5 x 2.5 x 1.5	IP67	2.0	1.0	UL/CUL/CE	31.50	25.95
2148105	MEAN WELL	HLG-120H-12B	+12V @ 0-10A	120	90-305 @ 47-63	8.7 x 2.7 x 1.5	IP67	2.0	0.5	UL/CUL/TUV/CE/PFC	42.80	35.89
1954877	MEAN WELL	CLG-150-12A	+12V @ 0-11A	132	90-295 @ 47-63	8.7 x 2.7 x 1.5	IP65	1.0	0.5	UL/TUV/CE	47.70	39.95
2108699	MEAN WELL	CLG-150-12†	+12V @ 0-11A	132	90-295 @ 47-63	8.7 x 2.7 x 1.5	IP67	1.0	0.5	UL/CUL/TUV/CE/PFC	47.70	39.95
2137609	MEAN WELL	HLG-150H-12A	+12V @ 0-12.5A	150	90-305 @ 47-63	9.0 x 2.7 x 1.5	IP65	2.0	0.5	UL/CSA/EN/IP/TUV	43.40	36.45
2102158	MEAN WELL	HLG-240H-12A	+12V @ 0-16A	192	90-305 @ 47-63	9.6 x 2.7 x 1.5	IP65	2.0	0.5	UL/TUV/EN/IP	57.80	48.49
2141780	MEAN WELL	HLG-320H-12A	+12V @ 0-22A	264	90-305 @ 47-63	9.9 x 3.5 x 1.7	IP65	2.0	0.5	UL/CUL/TUV/CB/CE/PFC	84.10	70.49
2122491	MEAN WELL	PLP-20-24#	+24V @ 0-0.8A	19.2	90-277 @ 47-63	5.5 x 1.3 x 0.8	—	10.0	3.0	UL/CUL/TUV/CE	7.95	6.95
2102617	MEAN WELL	LPV-20-24	+12V @ 0-1.67 A	20	90-264 @ 47-63	4.6 x 1.4 x 1.0	2	1	IP67	UL/CUL/TUV/CSA/CE	8.80	7.45
2102799	MEAN WELL	LPV-35-24	+24V @ 0-1.5A	36	90-264 @ 47-63	5.8 x 1.6 x 1.2	IP67	2.0	1.0	UL/CUL/TUV/CE	12.60	10.49
2102801	MEAN WELL	LPV-60-24	+24V @ 0-2.5A	60	90-264 @ 47-63	6.4 x 1.7 x 1.3	IP67	2.0	1.0	UL/CUL/TUV/CE	14.00	11.49
2140779	MEAN WELL	LPF-60D-24	+24V @ 0-2.5A	60	90-305 @ 47-63	6.4 x 1.7 x 1.3	IP67	0.5	0.5	UL/CUL/TUV/CE	27.20	22.79
1585872	MEAN WELL	CLG-100-24	+24V @ 0-4A	96	90-295 @ 47-63	8.7 x 2.7 x 1.5	IP67	2.0	1.0	UL/CUL/TUV/CE/PFC	46.40	38.95
2147971	MEAN WELL	HLG-150H-24	+24V @ 0-6.3A	151.2	90-305 @ 47-63	9.0 x 2.7 x 1.5	0.5	0.5	IP67	UL/CUL/TUV/CSA/CE	43.40	36.45
2103433	MEAN WELL	CLG-150-24	+24V @ 0-6.3A	151.2	90-295 @ 47-63	8.7 x 2.7 x 1.5	IP67	0.5	0.5	UL/CUL/TUV/CE/PFC	47.70	39.95
1954885	MEAN WELL	CLG-150-24A	+24V @ 0-6.3A	151.2	90-295 @ 47-63	8.7 x 2.7 x 1.5	IP65	1.0	0.5	UL/TUV/CE	47.70	39.95
2102174	MEAN WELL	HLG-240H-24A	+24V @ 0-10A	240	90-305 @ 47-63	9.6 x 2.7 x 1.5	IP65	0.5	0.5	UL/CUL/TUV/CE/PFC	57.80	48.49
2115127	MEAN WELL	HLG-240H-24B	+24V @ 0-10A	240	90-305 @ 47-63	9.6 x 2.7 x 1.5	IP67	0.5	0.5	UL/CUL/TUV/CE/PFC	57.80	48.49
2147903	MEAN WELL	HLG-320H-24	+24V @ 0-13.3A	319.2	90-305 @ 47-63	9.9 x 3.5 x 1.7	IP67	0.5	0.5	UL/CUL/TUV/CB/CE/PFC	84.10	70.49
2141819	MEAN WELL	HLG-320H-24A	+24V @ 0-13.3A	320	90-305 @ 47-63	9.9 x 3.5 x 1.7	IP65	0.5	0.5	UL/CUL/TUV/CE/CB	84.10	70.49
2101121	MEAN WELL	LPC-20-350	+48V @ 0-0.35A	16.8	90-264 @ 47-63	4.6 x 1.4 x 1.0	IP67	2.0	1.0	UL/CUL	8.80	6.95
2234425	EPtronics	LG75W-108-C0700-RD	+36-108V @ 0.7A	75	120-277 @ 50-60	9.4 x 1.8 x 1.3	IP66	4.0	2.0	UL/CUS/CE	17.95	15.95
2234433	EPtronics	LG120W-171-C0700-RD	+57-171V @ 0.7A	120	120-277 @ 50-60	9.4 x 1.8 x 1.3	IP66	4.0	2.0	UL/CUS/CE	19.95	17.95
2234441	EPtronics	LG150W-210-C0700-RD	+70-210V @ 0.7A	150	120-277 @ 50-60	9.4 x 1.8 x 1.3	IP66	4.0	2.0	UL/CUS/CE	22.95	20.49
2189302	MEAN WELL	HLG-185H-C1400A	+71-143V @ 1.4A	200	90-305 @ 47-63	9.0 x 2.7 x 1.5	IP67	—	1.0	CUL/CSA/EN	46.60	39.49
2189345	MEAN WELL	HLG-185H-C1400B	+71-143V @ 1.4A	200	90-305 @ 47-63	9.0 x 2.7 x 1.5	IP67	—	1.0	CUL/CSA/EN	46.60	39.49
2189281	MEAN WELL	HLG-185H-C700A	+143-286V @ 0.7A	200.2	90-305 @ 47-63	9.0 x 2.7 x 1.5	IP65/IP67	—	1.0	UL/CUL/CE	46.60	39.49

\* Applies only to primary output † Dimmable # Open frame

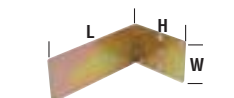


## Mounting Brackets & Accessories for MEAN WELL Enclosed Switching AC-to-DC Power Supplies

All brackets use metric screws: 2-F3 x 6, 2-F4 x 6, 2-T3 x 6, 2-T4 x 6 and 8-T4 x 6 (not included)

\* Web Code: MBM

Part No.	Mfr. P/N	For Models	1	10
222122	DRL-01	S-25/40, RS-25/35	\$ .99	\$ .89
222131	DRL-02	S-50/60/100/150, SP-100/150/200, D-120	1.49	1.25
222148	DRL-03A	S-240/320, SP-320	1.49	1.35
222165	DRP-02	S-15/25, SP-75/100/150/200	1.49	1.35
222173	DRP-03	All Models	1.49	1.25
222182	MHS012	S-320/350, SP-100/150/200/320	.49	.39
1952636	MHS013	PSP-500, SP-750, SE-600	.49	.45
248736	2094.0	DR, DRH, DRP, DRT, MDR	8.95	7.95



222122 4.35"L x 1.73"W x 2.52"H

222148 7.875"L x 2.48"W x 1.80"H



222165 3.2"L x 2.0"W x 0.3"H



222173 1.75"L x 1.97"W x 0.34"H



222182 .767"L x .60"W x .625"H



248736 (Slotted) DIN Mounting Rail Length: 1 meter

### Mating Connector

103588 \$1.90/10 pcs.  
Spade Solderless Terminal

### Crimp Tool

72996 \$25.95  
Solderless Terminal Crimp Tool

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

Order by Phone at 1-800-831-4242 or Online at [www.jameco.com](http://www.jameco.com)

# DIN-Rail Switching Power Supplies

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY



## DIN-Rail Switching Power Supplies

- Short-circuit, overload, overvoltage protection
- Low cost, high reliability
- 100% full-load burn-in test
- For DIN mounting rail, see page 107

- For DIN-Rail terminal blocks
- Universal AC input range
- Soft-start circuit, limiting AC surge current
- Rail not included

UL-508

\*5-13.8V Web Code: DTW

\*15-24V Web Code: DTF

\*27.6-48V Web Code: DFO



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14

Part No.	Mfr. Part No.	Fig.	Output Volts @ Curr.	Pwr (W)	Input Voltage (VAC @ Hz/VDC)	Input Current @ Max Load	Size (L" x W" x H")	Wt. (lbs.)	Certification	1	10
2103978	MDR-10-5	2	5VDC @ 2A	10	88-264 @ 47-63	0.33A(115V)/0.21A(230V)	3.5 x .89 x 3.9	0.4	UL/CUL/TUV/CB/CE	\$11.00	\$9.19
2101243	DR-15-5	9	5VDC @ 2.4A	12	85-264 @ 47-63/120-370	0.88A(115V)/0.48A(230V)	1.0 x 3.7 x 2.2	0.2	UL/CUL/TUV/CE	12.25	10.95
1943300	MDR-20-5	2	5VDC @ 3A	15	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	3.9 x 0.9 x 3.5	0.4	UL/CUL/TUV/CE	12.80	10.75
1943393	MDR-40-5	4	5VDC @ 6A	30	85-264 @ 47-63/120-370	1.1A(115V)/0.7A(230V)	3.9 x 1.6 x 3.5	0.6	UL/CUL/TUV/CE	17.10	14.29
1943449	MDR-60-5	4	5VDC @ 10A	50	85-264 @ 47-63/120-370	1.8A(115V)/1.0A(230V)	3.9 x 1.6 x 3.5	0.7	UL/CUL/TUV/CE	18.40	15.25
1952978	MDR-10-12	2	12VDC @ 0.84A	10	85-264 @ 47-63/120-370	0.33A(155V)/0.21A(230V)	3.9 x 0.9 x 3.5	0.4	UL/CUL/TUV/CE	11.00	9.19
2094952	DR-15-12	9	12VDC @ 1.25A	15	85-264 @ 47-63/120-370	0.88A(115V)/0.48A(230V)	3.7 x 1.0 x 2.2	0.2	UL/CUL/TUV/CE	12.25	10.95
1943334	MDR-20-12	2	12VDC @ 1.67A	20	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	3.9 x 0.9 x 3.5	0.4	UL/CUL/TUV/CE	12.80	10.75
373182	DR-30-12	1	12VDC @ 2A	24	85-264 @ 47-63/120-370	1.1A(115V)/0.6A(230V)	3.1 x 3.7 x 2.2	0.6	UL/CUL/TUV/CE	14.95	13.49
1943406	MDR-40-12	4	12VDC @ 3.33A	40	85-264 @ 47-63/120-370	1.1A(115V)/0.7A(230V)	3.9 x 1.6 x 3.5	0.6	UL/CUL/TUV/CE	17.10	14.29
192699	DR-45-12	3	12VDC @ 3.5A	42	85-264 @ 47-63/120-370	1.5A(115V)/0.75A(230V)	3.0 x 2.6 x 3.6	0.7	UL/CUL/TUV/CE	19.10	15.95
373230	DR-60-12	1	12VDC @ 4.5A	54	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	UL/CUL/TUV/CE	21.80	18.49
1943457	MDR-60-12	4	12VDC @ 5A	60	85-264 @ 47-63/120-370	1.8A(115V)/1.0A(230V)	3.9 x 1.6 x 3.5	0.7	UL/CUL/TUV/CE	18.40	15.25
212291	DR-75-12	7	12VDC @ 6.3A	75	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	UL/CUL/TUV/CE	31.50	25.95
1943481	MDR-100-12	5	12VDC @ 7.5A	90	85-264 @ 47-63/120-370	1.3A(155V)/0.8A(230V)	3.9 x 2.2 x 3.5	0.9	UL/CUL/TUV/CE	31.90	26.75
2218530	EDR-120-12	6	12VDC @ 10A	120	90-264 @ 47-63	2.25A(115V)/1.3A(230V)	4.5 x 1.6 x 5.0	1.32	UL/CUL/TUV/CE	24.30	20.39
212274	DR-120-12	7	12VDC @ 10A	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	UL/CUL/TUV/CE	38.70	31.95
2099366	SDR-120-12†	8	12VDC @ 10A	120	88-264/124-370 @ 47-63	1.4A(115V)/1.0A(230V)	4.5 x 1.6 x 4.9	1.5	UL/CUL/TUV/CE	49.50	41.49
1943342	MDR-20-15	2	15VDC @ 1.24A	20	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	3.9 x 0.9 x 3.5	0.4	UL/CUL/TUV/CE	12.80	10.75
1952986	MDR-10-24	2	24VDC @ 0.42A	10	85-264 @ 47-63/120-370	0.33A(115V)/0.21A(230V)	3.9 x 0.9 x 3.5	0.4	UL/CUL/TUV/CE	11.00	9.19
2100873	DR-15-24	9	24VDC @ 0.63A	15.2	85-264 @ 47-63/120-370	0.88A(115V)/0.48A(230V)	2.2 x 1.0 x 3.7	0.2	UL/CUL/TUV/CE	12.25	10.95
1943385	MDR-20-24	2	24VDC @ 1A	24	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	3.9 x 0.9 x 3.5	0.4	UL/CUL/TUV/CE	12.80	10.75
373203	DR-30-24	1	24VDC @ 1.5A	36	85-264 @ 47-63/120-370	1.1A(115V)/0.6A(230V)	3.1 x 3.7 x 2.2	0.6	UL/CUL/TUV/CE	14.95	13.49
1943422	MDR-40-24	4	24VDC @ 1.7A	40.8	85-264 @ 47-63/120-370	1.1A(115V)/0.7A(230V)	3.9 x 1.6 x 3.5	0.6	UL/CUL/TUV/CE	17.10	14.29
192681	DR-45-24	3	24VDC @ 2A	48	85-264 @ 47-63/120-370	1.5A(115V)/0.75A(230V)	3.0 x 2.6 x 3.6	0.7	UL/CUL/TUV/CE	19.10	15.95
1943465	MDR-60-24	4	24VDC @ 2.5A	60	85-264 @ 47-63/120-370	1.8A(115V)/1.0A(230V)	3.9 x 1.6 x 3.5	0.7	UL/CUL/TUV/CE	18.40	15.25
373246	DR-60-24	1	24VDC @ 2.5A	60	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	UL/CUL/TUV/CE	20.49	18.49
212282	DR-75-24	7	24VDC @ 3.2A	75	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	UL/CUL/TUV/CE	31.50	25.95
2190320	SDR-75-24	13	24VDC @ 3.2A	76.8	88-264 @ 47-63	1.4A(115V)/0.85A(230V)	4.0 x 1.25 x 4.9	0.4	UL/CUL/TUV/CE	30.80	25.75
1943490	MDR-100-24	5	24VDC @ 4A	90	85-264 @ 47-63/120-370	1.3A(115V)/0.8A(230V)	3.9 x 2.2 x 3.5	0.9	UL/CUL/TUV/CE	31.90	26.75
1943537	DR-100-24	1	24VDC @ 4.2A	100.8	88-264 @ 47-63/124-370	3.0A(115V)/1.6A(230V)	2.2 x 3.9 x 3.7	0.8	UL/CUL/TUV/CE	29.49	25.95
2218548	EDR-120-24	6	24VDC @ 5A	120	90-264 @ 47-63	2.25A(115V)/1.3A(230V)	4.5 x 1.6 x 5.0	1.32	UL/CUL/TUV/CE	24.30	20.39
212266	DR-120-24	7	24VDC @ 5A	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	UL/CUL/TUV/CE	38.70	31.95
2099374	SDR-120-24†	8	24VDC @ 5A	120	88-264/124-370 @ 47-63	1.4A(115V)/1.0A(230V)	4.5 x 1.6 x 4.9	1.5	UL/CUL/TUV/CE	49.50	40.49
1953727	DRH-120-24	7	24VDC @ 5A	120	340-550 @ 47-63/480-780	0.65A(400V)/0.6A(500V)	3.9 x 2.6 x 4.9	1.7	UL/CE	55.80	46.79
2123055	WDR-120-24	14	24VDC @ 5A	120	180-550 @ 47-63	0.55A(400V)/1.2A(230V)	4.5 x 1.6 x 4.9	0.4	UL/CUL/CB/CE	55.80	46.95
2218564	EDR-150-24	6	24VDC @ 5.2A	125	90-264 @ 47-63	2.6A(115V)/1.7A(230V)	4.5 x 1.6 x 5.0	1.32	UL/CUL/TUV/CE	25.40	21.25
221892	DRP-240-24†	10	24VDC @ 10A	240	85-264 @ 47-63/120-370	2.8A(115V)/1.4A(230V)	3.9 x 4.9 x 4.9	2.4	UL/CUL/TUV/CE	59.40	49.89
373123	DRT-240-24	10	24VDC @ 10A	240	3-phase 340-550 @ 47-63/480-780	0.95A(400V)/0.75A(500V)	3.9 x 4.9 x 4.9	2.9	UL/CUL/TUV/CE	73.80	61.95
2081086	SDR-240-24†	8	24VDC @ 10A	240	88-264 @ 47-63/124-370	2.6A(115V)/1.3A(230V)	2.5 x 4.9 x 4.5	2.5	UL/CUL/TUV/CE	83.30	69.95
225060	NDR-240-24	13	24VDC @ 10A	240	90-264 @ 47-63/127-370	—	4.5 x 2.4 x 5.0	2.4	UL/CUL/TUV/CB/CE	49.30	41.39
252663	DRP-480-24†	11	24VDC @ 20A	480	180-264 @ 47-63/250-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	UL/CUL/TUV/CE	103.00	86.49
295938	DRP-480S-24†	11	24VDC @ 20A	480	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	UL/CUL/TUV/CE	112.00	88.49
372577	DRT-480-24	11	24VDC @ 20A	480	3-phase 340-550 @ 47-63/480-780	1.7A(400V)/1.3(500V)	8.9 x 5.0 x 3.9	5.5	UL/CUL/TUV/CE	117.00	97.95
2094944	SDR-480-24†	12	24VDC @ 20A	480	88-264 @ 47-63/124-370	2.6A(115V)/1.3A(230V)	4.9 x 3.4 x 5.0	4.9	UL/CUL/TUV/CE	133.00	111.49
373131	DRT-960-24	11	24VDC @ 40A	960	340-550 @ 47-63	2A(400V)/1.6A(500V)	10.9 x 3.9 x 4.9	7.3	UL/CUL/TUV/CE	220.00	184.75
1943473	MDR-60-48	4	48VDC @ 1.25A	60	85-264 @ 47-63/120-370	1.8A(115V)/1.0A(230V)	3.9 x 1.6 x 3.5	0.7	UL/CUL/TUV/CE	18.40	15.25
221866	DR-75-48	7	48VDC @ 1.6A	76.8	85-264 @ 47-63	2A(115V)/1.2A(230V)	3.9 x 2.2 x 4.9	1.7	UL/TUV/CE	31.50	25.95
1943502	MDR-100-48	4	48VDC @ 2A	96	85-264 @ 47-63	1.3A(115V)/0.8A(230V)	4.0 x 2.2 x 3.5	0.93	UL/CUL/TUV/CE	31.90	26.75
221904	DR-120-48	7	48VDC @ 2.5A	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	UL/CUL/TUV/CE	38.70	31.95
2107338	SDR-120-48	8	48VDC @ 2.5A	120	88-264 @ 47-63	1.4A(115V)/1.0A(230V)	4.9 x 1.6 x 4.5	1.5	UL/CUL/TUV/CB/CE	49.50	41.49
221883	DRP-240-48†	10	48VDC @ 5A	240	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	UL/CUL/TUV/CE	59.40	49.89
2094936	SDR-240-48†	8	48VDC @ 5A	240	88-264 @ 47-63/120-370	2.6A(115V)/1.3A(350V)	2.5 x 4.9 x 4.5	2.5	UL/CUL/TUV/CE	83.30	69.95
301306	DRP-480S-48†	11	48VDC @ 10A	480	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	UL/CUL/TUV/CE	112.00	88.49
2107346	SDR-480-48	12	48VDC @ 10A	480	90-264 @ 47-63	5A(115V)/2.5A(230V)	4.9 x 3.4 x 5.1	3.5	UL/CUL/TUV/CB/CE	133.00	111.49

\* Switch selectable † With Power Factor Correction

# DIN-Rail UPS Module & Power Converters

Jameco carries the full line of MEAN WELL Power products. For additional products visit [www.jameco.com/meanwellproducts](http://www.jameco.com/meanwellproducts)



## 40A DC DIN-Rail UPS Module

\*Web Code: DTF

Part No.	Mfr. Part No.	Description	DC Input/DC BUS	Output Voltage @ Current	Charge Current	Certification	1	10
2103273	DR-UPS40	Battery controller for UPS	24-29V @ 40A	21-29VDC @ 0-40A	2A	CE	\$36.40	\$30.49



Rail not included



## 15 to 201-Watt Enclosed Converters

\*5-9V Web Code: IDF

\*12V Web Code: IDW

\*15-24V Web Code: IDR

\*30-48V Web Code: IDO

- 2:1 wide input range
- Working temp.: -10°C to +60°C
- 100% burn-in tes
- Protection: short-circuit, overload and overvoltage

**RSD-100/150 Series** • Isolation voltage: 4000VDC

**SD-15 Series** • Built-in EMI filter, low ripple noise

**SD-25/SD-50/SD-150 Series** • Isolation voltage: 1500VDC

**SD-200 Series** • Isolation voltage: 1500VDC

• One-year warranty

• Built-in EMI filter, low ripple noise

• Cooling by free air convection

• One-year warranty

• Fixed switching freq @ 83kHz

• One-year warranty



SD-150

Part No.	Mfr. Part No.	Input Range	Output		Size (L" x W" x H")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Certification	Pricing	
			Voltage @ Current	Power (W)							1	10
1953778	SD-15A-5	9.2-18V	+5V @ 3.0A	15	3.1 x 2.0 x 1.1	5	0.5	0.5	100	CE	\$12.10	\$10.15
1953786	SD-15B-5	18-36V	+5V @ 3.0A	15	3.1 x 2.0 x 1.1	5	0.5	0.5	100	CE	12.10	10.19
175662	SD-25A-5	9-18V	+5V @ 5.0A	25	3.9 x 3.8 x 1.4	5	0.5	0.5	100	CE	20.70	17.25
212549	SD-50A-5	9-18V	+5V @ 10A	50	6.3 x 3.8 x 1.5	5	0.5	0.5	100	CE	25.70	21.49
1953823	SD-15B-12	18-36V	+12V @ 1.25A	15	3.1 x 2.0 x 1.1	5	0.3	0.3	120	CE	12.10	10.15
1953840	SD-15C-12	36-72V	+12V @ 1.25A	15	3.1 x 2.0 x 1.1	5	0.3	0.3	120	CE	12.10	10.15
175805	SD-25A-12	9-18V	+12V @ 2.1A	25.2	3.9 x 3.8 x 1.4	5	0.3	0.3	120	CE	20.70	17.25
2107151	SD-25B-12	19-36V	+12 @ 2.1	52.5	3.9 x 3.8 x 1.4	5	0.3	0.3	120	CE	20.70	17.25
1537483	SD-50A-12	9.2-18V	+12V @ 4.2A	50.4	6.3 x 3.8 x 1.5	5	0.3	0.3	120	CE	25.70	21.49
212531	SD-50B-12	19-36V	+12V @ 4.2A	50.4	6.3 x 3.8 x 1.5	5	0.3	0.3	120	CE	25.70	21.49
212506	SD-50C-12	36-72V	+12V @ 4.2A	50.4	6.3 x 3.8 x 1.5	5	0.3	0.3	120	CE	25.70	21.49
2149343	RSD-100B-12	14.4-33.6V	+12 @ 8.4	100.8	6.3 x 2.7 x 1.4	3	0.3	1	120	CE	56.70	49.95
217270	SD-150B-12	19-36V	+12V @ 12.5A	150	7.8 x 4.3 x 2.0	7	0.5	0.5	120	CE	42.80	35.95
1953874	SD-15C-24	36-72V	+24 @ 0.625	15	3.1 x 2 x 1.1	5	0.2	0.2	150	CE	12.10	10.15
175813	SD-25A-24	9-18V	+24V @ 1.1A	26.4	3.9 x 3.8 x 1.4	5	0.2	0.2	150	CE	20.70	17.25
2107266	SD-50A-24	9.2-18V	+24V @ 2.1A	50.4	6.3 x 3.8 x 1.5	5	0.2	0.2	150	CE	25.70	21.49
2107039	SD-100C-24	36-72V	+24V @ 4.2A	100.8	7.8 x 3.9 x 1.6	7	0.2	0.2	150	CE	32.40	27.19
2107071	SD-150B-24	19-36V	+24 @ 6.3	151.2	7.8 x 4.3 x 2	7	0.3	0.3	150	CE	42.80	35.95
2107098	SD-150C-24	36-72V	+24V @ 6.3A	151.2	7.8 x 4.3 x 2.0	7	0.3	0.3	150	CE	42.80	31.95
2157061	RSD-150D-24	57.6-154V	+24 @ 6.3	151.2	7.5 x 3.1 x 1.5	4	0.2	1	150	CE	72.90	64.95
1953743	SD-200C-24	72-144V	+24 @ 8.4	201.6	8.5 x 4.5 x 2	9	1	0.5	150	UL/CUL/CB/CE	70.90	59.49

Power

## Encapsulated DC-to-DC Converters

\*3.3-9V Web Code: IEF

\*12-13.5V Web Code: IEW

\*15-24V Web Code: IEO

- 1000VDC I/O isolation
- Cooling by free air convection
- Short-circuit/overload protection
- Shield metal case
- 2:1 wide input range
- One-year warranty



SLW05

SKE10

DKE10

Part No.	Mfr. Part No.	Input Range	Output		Size (L" x W" x H")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Certification	Pricing	
			Voltage @ Current	Pwr (W)							1	10
213234	SLW05C-05*	36-72V	+5V @ 1A	5	2.0 x 1.0 x 0.44	5	1.0	0.2	100	CE	\$10.95	\$9.95
216962	SKE10A-05*	9-18V	+5V @ 2A	10	2.0 x 1.0 x 0.44	5	0.3	1.0	50	CE	14.95	13.75
155695	SKE15A-24*	9-18V	+24V @ 0.625A	15	2.0 x 2.0 x 0.43	5	0.3	0.5	80	CE	16.49	15.49
161702	DCW03A-12**	9-18V	+12V @ 0.125A	15	1.25 x 0.8 x 0.48	10	1.0	0.5	100	CE	6.95	6.59
217112	DKE10A-15**	9-18V	+15V @ 0.333A	5.0	2.0 x 1.0 x 0.44	5	0.3	0.5	60	CE	15.25	14.75

\*Single output

\*\*Double output

## SELECTABLE 6-OUTPUT SWITCHING WALL ADAPTER WITH INTERCHANGEABLE DC PLUG TIPS



- Selectable voltages: 3V/1.5A, 4.5V/1.2A, 6V/1A, 7.5V/0.9A, 9V/0.8A, 12V/0.5A
- Input voltage: 100-230VAC
- Cord length: 46"
- Plugs: 2.5mm mono, 3.5mm mono, 1.0 x 3.0mm, 1.35 x 3.5mm, 1.7 x 4.0mm, 2.1 x 5.0mm, 2.5 x 5.5mm, 1.5 x 5.5mm (female ID x OD)



Part No.	Mfr. Part No.	Dimensions (L x W x H)	1	10
2137182	PSSMV1USA	2.6" x 1.1" x 2.9"	\$15.95	\$14.95

## 1.25A CONSTANT CURRENT LED POWER SUPPLY



- Output range: 8-24VDC @ 12.5A
- Input range: 90-305VAC @ 47-63Hz
- Stripped & tinned output wires
- Water resistant and dust proof design: IP66, NEMA4 for dry, damp, wet locations
- UL8750, EN61347, CSA 22.2 safety compliant



Part No.	Mfr. Part No.	Dimensions (L x W x H)	1	10
2234775	LD30W-24-C1250	5.2" x 1.6" x 1.0"	\$7.95	\$6.95

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box



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# Batteries & Rechargeable Battery Packs

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## Lithium, NiCd, NiMH & Li-Ion Batteries



### Lithium - Non-rechargeable - Coin Cell

Part No.	Product No.	Mfr.	Fig.	Size	Volts	mAh	Dimensions	1	10	25
2123784	CR1220	Evergreen	1	CR1220	3	40	0.49"Dia. x 0.77"Thick	\$ .69	\$ .59	\$ .49
2210010	CR1220-LEADS	ReliaPro	2	CR1220	3	40	0.49"Dia. x 0.77"Thick	.89	.79	.69
2119865	CR1632	Evergreen	1	CR1632	3	120	0.63"Dia. x 0.13"Thick	.99	.89	.79
2238362	CR2025-LEADS	ReliaPro	2	CR2025	3	160	0.79"Dia. x 0.10"Thick	1.29	1.15	.99
2167509	CR2025-2*	Energizer	1	CR2025	3	162	0.79"Dia. x 0.10"Thick	1.95	1.75	1.49
14162	CR2032	Renata	1	CR2032	3	180	0.79"Dia. x 0.13"Thick	.89	.79	.69
2223443	CR2032-LEADS	ReliaPro	2	CR2032	3	180	0.79"Dia. x 0.13"Thick	1.49	1.29	1.19
11789	CR2325	ReliaPro	1	CR2325	3	165	0.91"Dia. x 0.13"Thick	1.19	1.09	.99
2119216	CR2450	Evergreen	1	CR2450	3	550	0.95"Dia. x 0.20"Thick	1.19	1.09	.99
2238371	CR2450-LEADS	ReliaPro	2	CR2450	3	550	0.95"Dia. x 0.20"Thick	1.25	1.09	.99
2258822	CR2477BN	Panasonic	1	CR2477	3	1000	0.96"Dia. x 0.30"Thick	1.95	1.75	1.49
2158231	CR927	Arndt	1	CR927	3	30	0.37"Dia. x 0.10"Thick	.59	.49	.39

\* Sold in multiple of 2 \$ 2" wire leads

### Lithium - Non-rechargeable - Pressure Fit

Part No.	Product No.	Mfr.	Fig.	Size	Volts	mAh	Dimensions	1	10	25
2188561	LS14250	Saft	3	1/2 AA	3.6	1200	1.00"L x 0.56"Dia.	\$3.95	\$3.59	\$3.29
146114	TL-5104/S	Tadiran	4	AA	3.6	2100	1.91"L x 0.56"Dia.	6.95	6.25	5.59
240258	CR123A	ReliaPro	5	CR123A	3	1300	1.36"L x 0.65"Dia.	2.49	2.25	1.95

### Lithium - Non-rechargeable - Axial Leads

Part No.	Product No.	Mfr.	Fig.	Size	Volts	mAh	Dimensions	1	10	25
33371	TL-5101P	Tadiran	6	1/2 AA	3.6	950	0.93"L x 0.56"Dia.	\$5.95	\$5.39	\$4.79
263898	ER14250	ReliaPro	6	1/2 AA	3.6	1000	1.00"L x 0.55"Dia.	4.49	3.95	3.75
33398	TL-5104/P	Tadiran	7	AA	3.6	2100	1.88"L x 0.56"Dia.	7.29	6.59	5.95

## JAMECO ReliaPro TENERGY NiCd - Rechargeable - Pressure Fit

\* Web Code: GCF

Part No.	Product No.	Mfr.	Fig.	Size	Volts	mAh	Dimensions	1	10	25
261657	AA-700-CT	ReliaPro	4	AA	1.2	700	1.90"L x 0.55"Dia.	\$1.75	\$1.49	\$1.25
244515	AA-1000-CT	ReliaPro	4	AA	1.2	1000	1.90"L x 0.55"Dia.	2.49	2.25	1.95
244574	SC-1500	ReliaPro	8	Sub-C	1.5	1500	1.70"L x 0.89"Dia.	2.95	2.59	2.29

## EVERGREEN TENERGY DANTONA NiMH - Rechargeable

\* Web Code: GCF

### Pressure Fit

Part No.	Product No.	Mfr.	Fig.	Size	Volts	mAh	Dimensions	1	10	25
231095	10405	Tenergy	9	AAA	1.2	1000	1.70"L x 0.40"Dia.	\$2.75	\$2.49	\$2.25
231087	AA-1800NM	Dantona	4	AA	1.2	1800	1.90"L x 0.55"Dia.	3.49	2.95	2.59
2197492	AA-2300-2*	Arndt	4	AA	1.2	2300	1.90"L x 0.55"Dia. (2 pk)	4.95	4.49	3.95
2127777	AA-2500CT	Tenergy	4	AA	1.2	2500	1.90"L x 0.55"Dia.	3.95	3.59	3.29
244620	10005	Tenergy	10	9V	8.4	200	1.94"L x 0.65"Dia.	7.95	6.95	6.25

\* Pack of 2

### PC Pin (2 & 3 pin)

Part No.	Product No.	Mfr.	Fig.	Size	Volts	mAh	Dimensions	1	10	25
2137473	NHB60H3A2H	Evergreen	11	2 pin	3.6	80	0.72"L x 0.61"Dia.	\$4.95	\$4.49	\$3.95
2129342	COMP-16-3NMH	Dantona	11	3 pin	3.6	80	0.72"L x 0.61"Dia.	6.95	6.25	5.59

## TENERGY Li-Ion - Rechargeable - Pressure Fit

\* Web Code: LII

Part No.	Product No.	Mfr.	Fig.	Cell Size	Volts	mAh	Dimensions	1	10	25
2140349	30006	Tenergy	12	18650	3.7	2600	2.56"L x 0.72"Dia.	\$11.95	\$10.95	\$9.95

## me 12V Lithium-Ion Rechargeable Battery Pack

High-powered, ultra-compact, covert battery pack with charger. Provides the same power as larger batteries at a fraction of the size and weight.

- Charging adapter included
- On/Off switch
- LED indicators
- 18" power cord
- Input: 110-230VAC 50/60Hz
- Output: 12.6VDC, 350mA
- Connection: 2.1mm female output, 2.1mm male input
- Size: 3.0"L x 2.0"W x 0.75"H
- Weight: 0.58 lbs.
- Initial charge should be 24 hours before use

Part No.	Description	1	10
2129351	LBP-124500	\$49.95	\$44.95

## JAMECO ReliaPro Lithium-Ion Power Bank Rechargeable Battery Pack

- 4000mAh (4Ah)
- Output: dual USB output 5VDC, one with 1A output and one with 2A output
- Input: one micro B USB port (5VDC, 1A)
- Convenient battery test button
- 1 foot USB male to micro B male cable included)

Part No.	Mfr. Part No.	1	10
2228527	Q57251	\$19.95	\$18.95

## adafruit USB Li-Ion/LiPoly Charger

- Assembled. Includes bonus 2-pin JST-PH cable
- For 3.7/4.2V (not compatible with 3.6/4.1V cells)
- Connect via USB mini-B
- 500mA default fast-charge current
- Battery and USB cable sold separately
- 0.1" breakouts for battery, DC and status LEDs
- Size: 1.3"L x 1.4"W x 0.3"H

Part No.	Mfr. Part No.	1	5
2144366	259	\$13.95	\$12.95

## adafruit 3.7V 2500mAh Li-Poly Battery Pack

- Lithium-ion polymer battery pack
- 3.7V (as high as 4.2V on full charge)
- 3.75" wires with 2-pin JST-PH connector
- Recharge rate should be ≤1200 mA (1/2C)
- Size: 2"L x 2.55"W x 0.3"H

Part No.	Mfr. Part No.	1	5
2240139	328	\$14.75	\$13.75

## Wall Type NiMH/NiCd Battery Charger

- Input voltage: 120VAC @ 60Hz
- Output power: 1.2VA
- 2 individual charging channels
- Retractable AC prongs
- LED indicator and reverse polarity protection

Part No.	Mfr. P/N	Description	1	10	100
2197505	KN-101	AA/AAA/9V charger	\$1.95	\$1.75	\$1.49

\* Battery Chargers & Packs — Enter Web Code LAC

# Batteries & Battery Chargers



## Non-Rechargeable Alkaline Batteries



215845



198731



198791



2112461



198707



2112444



2158493



198715



2112436



\*Web Code: NBF

Part No.	Mfr.	Size	1	10
215845	Energizer	1.5V - D†	\$1.75	\$1.49
198731	Energizer	9V†	2.25	1.95
198791	Duracell	9V†	2.75	2.49
2237976	Evergreen	12V - A23†	.85	.75

\*Sold in packs

Part No.	Mfr.	Size	*Min.	1	20	100
198707	ENG	1.5V - AA	4	\$.79	\$.69	\$.65
2112444	EVG	1.5V - AA	4	.45	.39	.29
2158493	MIC	1.5V - AA\$	2	.39	.29	.25
198715	ENG	1.5V - AAA	4	.69	.59	.55
2112436	EVG	1.5V - AAA	2	.55	.49	.45
2112428	EVG	1.5V - C	2	1.19	1.09	.99
2112461	EVG	9V	2	1.75	1.59	1.39

\$Zinc chloride †Sold in singles

\*ENG = Energizer | EVG = Evergreen | MIC = Micropower



## Silver Oxide and Zinc Chloride Batteries

**Applications:** Personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.

\*Web Code: XAB



140783



151095

Part No.	Cross Ref.	Description	1	10
140783	357	Silver oxide, button, 1.55V, 175mAh	\$1.19	\$1.09
151095	GF6F22	Zinc chloride, 9V	1.19	1.09

## Battery Charger Switching Table-Top Adapter

- Input voltage: 100 to 240VAC @ 50-60Hz
- Output voltage: 13.5V @ 2.2A
- Output connector: 30" cable with 4-position (2 x 2 grid) Molex Mini-Fit Jr. 5559 series connector (39-01-2041)
- UL/CUL listed • Can be used as battery charger

**Includes:** 5' 3-prong Mickey Mouse type power cord

\*Web Code: LAC



Part No.	Mfr. Part No.	Size (L" x W" x H")	1	10	100
2139006	3G-301DN13	7.09 x 3.78 x 1.93	\$3.95	\$3.59	\$3.29

## Smart Battery Charger for Li-Ion & LiPoly Packs

This charger can charge 1 to 4 cells, 3.7V to 14.8V Li-Ion/LiPo battery packs with capacity greater than 1000mAh and can auto-switch output.

\*Web Code: LAC

- Constant current charging for faster charges
- Stabilized output with low ripple
- Voltage auto-select
- Input: 100-240VAC @ 50/60Hz, 1A
- Protection against over voltage, short circuit, and wrong polarity



Part No.	Mfr. Part No.	Watts	Boost Charge Voltage	Float Charge Voltage	Recommended Battery Capacity (AMP Hours)	Pricing	
						1	10
2151478	01281	16.8	3.7/7.4	11.1/14.8	>1000mAh	\$19.89	\$18.89



## Lead Acid Batteries

- Use with UPS backup systems, security fire alarms, wheel chairs, scooters
- Sealed • UL approved • Rechargeable
- One-year manufacturer warranty



264014



264031



318924



264057



264065



264073

Part No.	Manufacturer	Mfr. Part No.	Nominal Voltage	Amp-Hrs.	Cross Reference				Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	Pricing	
					Panasonic	YUASA	Eagle Picher	Tempest				1	10
2234361	Tempest	TR2.8-6	6	2.8	—	—	—	—	Quick connect 0.187"	2.6 x 1.3 x 3.9	1.3	\$10.95	\$9.95
264014	Tysonic	TY-6-4.5	6	4.5	LCR6VP	NP4-6	CF16V4	TR-4-6	Quick connect 0.187"	2.8 x 1.9 x 4.0	1.9	10.95	9.95
2234388	Tempest	TR10-6	6	10	—	—	—	—	Quick connect 0.187"	5.9 x 1.9 x 3.7	4.41	21.95	19.75
318844	Tysonic	LA-TY-12-1.2	12	1.2	—	—	—	—	Quick connect 0.187"	3.8 x 1.7 x 2.1	1.3	14.95	13.49
264031	Tysonic	TY-12-2.3	12	2.3	LCR12V2.2P	NP2.3-12	CF12V1.5	TR2.3-12	Quick connect 0.187"	7.0 x 1.3 x 2.4	2.1	19.95	18.95
318924	Tysonic	LA-TY-12-3.4	12	3.4	—	—	—	—	Quick connect 0.187"	5.3 x 2.7 x 2.4	3.1	19.95	17.95
264049	Tysonic	TY-12-5	12	5.0	—	—	—	—	Quick connect 0.187"	3.5 x 2.7 x 3.9	3.6	17.95	15.95
264057	Tysonic	TY-12-7.5	12	7.5	LCR12V7.2BP	NP712	CFM12V65	TR7.5-12	Quick connect 0.187"	5.9 x 2.6 x 3.7	5.6	24.95	22.49
264065	Tysonic	TY-12-12	12	12.0	PS12120	—	CFM12V12	TR12-12	Quick connect 0.187"	5.9 x 3.9 x 3.7	9.0	44.95	42.95
264073	Tysonic	TY-12-18	12	18.0	LCR12V17BP	NPG18-12	CF12V18	TR18-12	Quick connect 0.472"	7.1 x 3.0 x 6.6	13.3	49.95	45.95
318852	Tysonic	LA-TY-12-35	12	35.0	—	—	—	—	Nut and bolt	7.6 x 5.1 x 6.3	27.6	109.95	99.95

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Battery Holders

3 LEVELS OF SAVINGS		
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## JAMECO ReliaPro Coin Cell, Single and Dual-Sided Battery Holders



\*Web Code: UAB

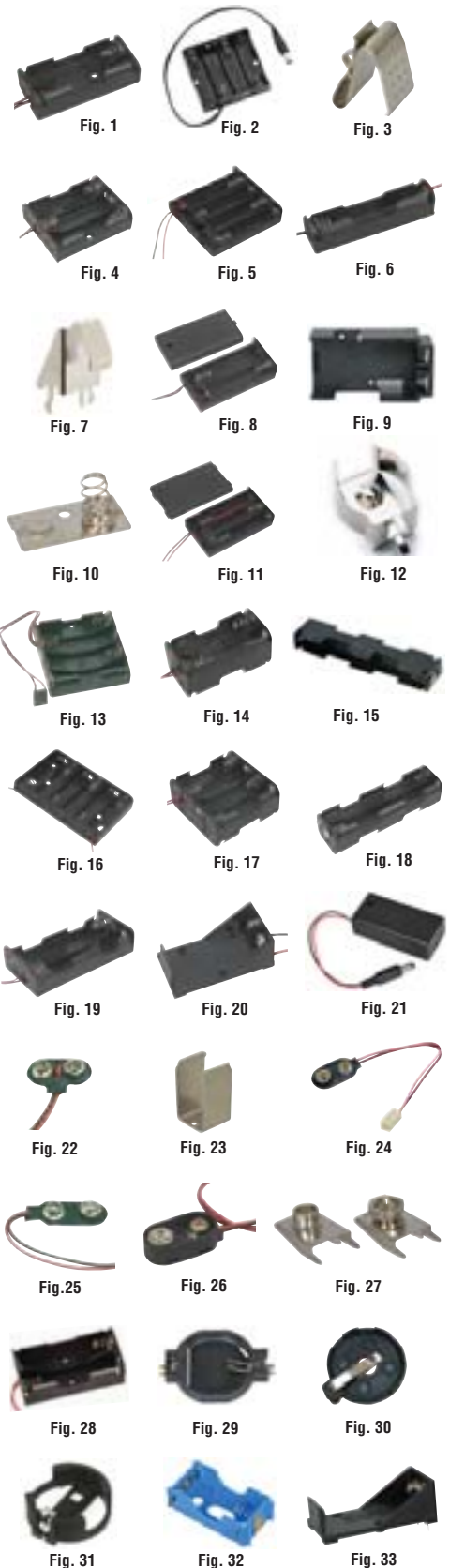
Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, tabs or snaps.

NEW  
MARKED IN PINK

Part No.	Cross Ref. No.	*Mfr.	Fig.	No. of Cells	Conn. (L")	Sides	Features*	1	10	100	500
2236981	12-051	JRP	1	2-AAA	Pins, 2.5	Single	Breadboard-ready	\$1.09	\$ .99	\$ .89	\$ .79
216292	SBH-421-AS*	JRP	1	2-AAA	Wires, 5.5	Single	w/ cover&sw, 26 AWG	1.25	1.15	.95	.85
216283	BH-421-1A	JRP	1	2-AAA	Wires, 5.5	Single	26 AWG	.99	.89	.75	.69
216303	BH-431-1A	JRP	4	3-AAA	Wires, 5.5	Single	26 AWG	1.15	1.05	.95	.85
216312	SBH-431-1AS*	JRP	4	3-AAA	Wires, 6.0	Single	w/ cover&sw, 26 AWG	1.15	1.05	.95	.85
216339	SBH-441-AS*	JRP	5	4-AAA	Wires, 5.5	Single	w/ cover&sw, 26 AWG	1.59	1.45	1.29	1.15
2232833	UM-4	JRP	5	4-AAA	PC mount	Single	.478" (12mm) spacing	1.49	1.25	1.09	.95
2245546	BH-482B	JRP	18	8-AAA	Snap	Dual	Series (12V)	1.69	1.49	1.35	1.19
2197935	BC-0302	JRP	12	1-AA/AAA	PC mount	Single	.3" (7.62mm) spacing	.29	.25	.19	.17
216072	BH-311-2A	JRP	6	1-AA	Wires, 5.5	Single	26 AWG	.75	.65	.55	.49
2222133	209.	KEY	3	1-AA,AA,CR2,CR123A	Solder lugs	Single	Metal contact	.29	.25	.19	.17
2222230	590	KEY	7	1-AA,AA,CR2,CR123A,9V	PC mount	Single	Metal contact	.25	.17	.12	.10
2270007	12BH321PR	EAG	29	2-AA	PC mount	Single	.478" (12mm) spacing	1.25	1.15	.95	.85
216081	BH-321-2A	JRP	1	2-AA	Wires, 5.5	Single	26 AWG	.89	.79	.69	.59
216099	BH-321-4A	JRP	1	2-AA	Wires, 5.5	Single	w/ mnt. tabs, 26 AWG	.69	.59	.55	.49
216102	SBH-321-2A	JRP	8	2-AA	Wires, 5.5	Single	w/ cover, 26 AWG	1.49	1.25	1.09	.99
216120	SBH-321-1AS*	JRP	8	2-AA	Wires, 5.5	Single	w/ cover&sw, 26 AWG	1.95	1.75	1.59	1.45
2222176	5212	KEY	10	2-AA	Screwable	Single	Metal contact	.39	.35	.25	.19
216136	BH-331-A	JRP	4	3-AA	Wires, 5.5	Single	26 AWG	.95	.85	.69	.65
216144	SBH-331-AS*	JRP	11	3-AA	Wires, 6.0	Single	w/ cover&sw, 26 AWG	1.65	1.45	1.25	1.15
2207013	4XAA-2.1	JRP	2	4-AA	Plug, 5.0	Single	2.1mm plug, 22 AWG	2.49	2.25	1.95	1.75
216152	BH-341-2A	JRP	5	4-AA	Wires, 5.5	Single	26 AWG	1.19	1.09	.99	.89
105858	BH-PC §	JRP	13	4-AA	Wires, 5.5	Single	w/ conn., 26 AWG	.99	.89	.75	.65
216179	BH-343-1A	JRP	14	4-AA	Wires, 5.5	Dual	26 AWG	1.09	.95	.79	.69
2191883	12BH341-GR	EAG	15	4-AA	Snaps	Dual	—	1.19	1.09	.89	.79
216187	SBH-341-1AS*	JRP	5	4-AA	Wires, 6.0	Single	w/ cover&sw, 26 AWG	2.49	2.25	1.95	1.75
2095453	SBH-341-1A	JRP	5	4-AA	Wires, 5.5	Single	w/ cover, 26 AWG	1.49	1.35	1.19	.99
216223	BH-364-A	JRP	16	6-AA	Wires, 5.5	Single	26 AWG	1.69	1.49	1.35	1.19
2207021	6XAA-2.1	JRP	16	6-AA	Plug, 3.5	Single	2.1mm plug, 22 AWG	3.95	3.59	3.19	2.89
2228455	BH16AASF	MPD	15	6-AA	Snaps	Dual	—	1.19	.99	.85	.69
216240	BH-383-A	JRP	17	8-AA	Wires, 6.0	Dual	26 AWG	1.95	1.75	1.59	1.39
216267	BH-383-B	JRP	17	8-AA	Snaps	Dual	—	.99	.89	.79	.69
216259	BH-382-B	JRP	18	8-AA	Snaps	Dual	—	1.39	1.25	1.15	.99
216363	BH-242-1A	JRP	19	4-C	Wires, 5.5	Single	24 AWG	1.39	1.25	1.15	.99
216371	BH-111-1A	JRP	6	1-D	Wires, 5.5	Single	26 AWG	1.15	1.05	.89	.79
2243920	JHE BATTERY HOLDER	JRP	32	1-D	3/8" tab	Single	Modular	1.49	1.35	1.19	.99
216390	BH-121-1A	JRP	1	2-D	Wires, 5.5	Single	24 AWG	1.39	1.25	1.15	.99
216401	BH-142-A	JRP	19	4-D	Wires, 5.5	Single	24 AWG	1.09	.99	.89	.79
2128067	SBH-9VAS*	JRP	8	1-9V	Wires, 5.5	Single	w/ cover&sw, 26 AWG	1.49	1.35	1.19	1.05
2228447	BC9VPC	MPD	9	1-9V	PC mount	Single	Open holder, THM	1.49	1.35	1.19	.99
2234118	BH9VPC	MPD	33	1-9V	PC mount	Single	Open, snaps, THM	1.59	1.45	1.29	1.05
2207048	1X9V-2.1 CS	JRP	21	1-9V	Plug, 5.5	Single	2.1mm plug, 22 AWG	3.59	3.25	2.95	2.59
216427	BH-9V-A	JRP	20	1-9V	Wires, 5.5	Single	26 AWG	.89	.79	.69	.59
11280	A104-R	JRP	22	1-9V	Wires, 2.5	Single	26 AWG, snaps	.49	.45	.39	.35
2191891	12BH079-GR	JRP	23	1-9V	Screwable	Single	Metal holder, flat	.69	.65	.59	.49
105794	GBH-1009-R	JRP	23	1-9V	Screwable	Single	Metal holder, side	.49	.45	.39	.29
2191904	121-0426/IM-GR §	EAG	24	1-9V	Wires, 4.0	Single	w/ conn., 26 AWG	1.49	1.29	1.19	1.09
1949488	BAT-SNAP-4	JRP	25	1-9V	Wires, 3.5	Single	26 AWG, snaps	.49	.39	.35	.29
109154	BC6-R	JRP	25	1-9V	Wires, 5.5	Single	26 AWG, snaps	.49	.39	.35	.29
216452	SBS-IR-1-R	JRP	26	1-9V	Wires, 5.5	Single	26 AWG, snaps	.55	.45	.39	.35
101470	A102-R	JRP	25	1-9V	Wires, 10.0	Single	26 AWG, snaps	.49	.39	.35	.29
2207056	1X9V-2.1 SNAP	JRP	22	1-9V	Plug, 5.5	Single	2.1mm plug, 24 AWG	1.95	1.75	1.59	1.39
2203899	9VSNAP0B6	JRP	27	1-9V	Snaps	Single	PCB mount	.49	.45	.35	.29
2265735	12BH521PR	EAG	28	2-N (E90)	PC mount	Single	Release strap, THM	1.09	.99	.85	.75
2146231	BH-18650-2S	JRP	28	2-18650	Wires, 6.0	Single	26 AWG	1.95	1.75	1.59	1.39
2258646	AAA-BAT-054	ADT	29	1-0.79"Dia. max	2-pin SMT	Coin cell	CR2032 battery	.99	.89	.85	.75
236996	103	KEY	30	1-0.79"Dia. max	PC mount	Coin cell	CR2032 battery	1.69	1.39	1.19	1.05
38543	2S2325	JRP	30	1-0.85"Dia. max	PC mount	Coin cell	CR2325 battery	.79	.75	.65	.59
355434	17002-00603	JRP	31	1-0.79"Dia. max	PC mount	Coin cell	CR2325 battery	.75	.69	.59	.55

§ 2-pin connector \* SW = switch

\* ADT = Arndt | EAG = Eagle Plastics | JRP = Jameco ReliaPro | KEY = Keystone | MPD = Memory Protection Devices







## Meters & Testers



Part No.	Manufacturer	Mfr. Part No.	Description	1	5
2264543	BenchPro	23437	Pen style non-contact AC voltage detector with alarm and LED light	\$6.95	\$6.49
2130749	Velleman	VTLAN4	LAN tester, tests RJ-45, 10 Base-T, Token Ring, RJ11/12 cables	16.95	15.49
2206037	Dawson	DDM30	Smart SMD Tweezer Tester	27.95	24.95
198678	Extech	LCR Meter	Passive Component LCR Meter	210.95	199.95
2075946	P3	P4400	Kill-A-Watt® Energy Consumption Meter	29.95	26.95
2222483	Dawson	DET301	3-wire socket AC polarity/open	5.95	5.35



## 3MHz Direct Digital Synthesis Signal Generator with Voltage Display



This economical function generator with high accuracy and high stability output is based on Direct Digital Synthesis technology and offers a frequency range of 3MHz and you can select Sine, Square, Triangle and TTL waveform outputs. The DDS platform also provides user friendly operation.

- Frequency range: 0.1Hz - 3MHz (sine, square); 0.1Hz - 1MHz (triangle)
- Low distortion Sine wave: -55dBc, 0.1Hz to 200kHz
- Constant current source circuit
- Attenuator: -40dB  $\pm$ 1dB
- 6-digit LED display
- Impedance: 50 $\Omega$   $\pm$ 10%

Part No.	Mfr. Part No.	Bandwidth	# of waveforms	Price
2244050	SFG-1013	3MHz	4	\$189.95



## Function Generators



2160411

2112831

2135814



Part No.	Manufacturer	Mfr. Part No.	Features	Bandwidth	# of Waveform Types	Size (in.)	Wt. (lbs.)	Includes*	Price
2160411	Instek	SFG-1003	DDS with FPGA design and 6-digit LED display	3MHz	4	9.9 x 3.6 x 11.5	4.6	1, 2, 3	\$143.95
2112831	SKMI	SK5200	Rotary switch control with built-in 60MHz counter	5MHz	6	11.8 x 3.5 x 10.8	5.5	1, 3	209.95
2135814	Uniteq	US-9170A	Maximum resolution 0.01Hz, 100mVpp ~20Vpp Sweep range 1Hz ~ 10MHz	10MHz	5	14.6 x 13.8 x 6.9	28.7	1, 3	849.95

\*1. Power cord 2. BNC cable 3. User's manual

## Oscilloscopes



2205915

2205931

2187454

2137422

2171655

2143401

Part No.	Manufacturer	Mfr. Part No.	Bandwidth	Features	Size (in.)	Wt. (lbs.)	Includes	Price
2205915	Gobotronics	GT-0005	200kHz	Mixed signal plug-in DIP package, 2MSa/s, 2.42" OLED	3.3 x 1.75	0.065	Two 10-pin headers	\$69.95
2205931	Gobotronics	GT-0015	200kHz	Mixed signal handheld, 2MSa/s, 2.42" OLED, 750mAh Li-Ion	3.17 x 2.22 x 0.7	0.4	Header, USB cable, 2 test clip leads	117.95
2217393	Seed Studio	TOL01241P	200kHz	USB PC-based scope, 2.8" LCD display, built-in signal generator	4.1 x 2.1 x 0.3	0.4	Carrying case, stand, 2 grabbers, wrench	99.95
2187454	Velleman	PCSU200	12MHz	USB PC-Based scope, function generator, transient recorder, bode plotter and spectrum analyzer	3.9 x 3.9 x 1.4	0.54	USB cable, user's manual	146.95
2137422	Velleman	PCSGU250	12MHz	All-in-One PC lab with o-scope, spectrum analyzer, recorder, function generator, bode plotter	2.2 x 8.2 x 7	2.1	Scope probe, BNC-to-RCA adaptor, USB cable, CD software, manual	199.95
2218273	Uniteq	OS-5030A	30MHz	2-Channel dual trace, sensitivity 1mV/div, alt, triggering function (vert mode), 6" rectangular CRT display, sweep mag. (x10)	16.1 x 12.4 x 5.2	17.2	Probes not included	444.95
2171655	Uniteq	DS-1065	60MHz	2-Channel, 500MSa/s, built-in delay sweep function, 320x240 pixel high-resolution 5.7" display, USB storage	11.8 x 5.9 x 5.1	8.0	2 probes, DB9 cable, USB cable, power cord, user's manual, CD software	549.95
2143401	Instek	GDS-1152A-U	150MHz	2-Channel, 1GSa/s, 2Mpoint record length	12.2 x 5.6 x 5.5	7.9	Test probe, AC cord, user's manual	599.95

## Oscilloscope Probe Sets

- Input resistance at x10 ratio: 10M $\Omega$
- Accessories may include: tips, ground lead, hooks, protection caps, trimmer screwdriver



2145342

22892

2189880

Part No.	Manufacturer	Mfr. Part No.	Bandwidth	Attenuation Ratio	Description	Length (ft.)	1	5
2130781	Velleman	PROBE60S	60MHz	1:1 or 10:1	IEC-1010 CAT II, 600V max	4.0	\$11.75	\$11.25
2145342	EZ Digital	T5060	60MHz	1:1 or 10:1	300VDC max.	4.0	22.95	20.95
22892	BenchPro	LF101E	60MHz	1:1 or 10:1	600VDC max.	5.0	19.95	17.95
2189880	BenchPro	P6100*	100MHz	1:1 or 10:1	600VDC max.	4.0	19.95	17.95
2130618	Velleman	PROBE100	100MHz	1:1 or 10:1	IEC-1010 CAT II, 600V max	4.0	24.95	22.49

\*2 probes included

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box



Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

**DVM810**  
P/N 2131127  
**\$6.95**

**DT830D**  
P/N 2230002  
**\$9.95**

**DT182**  
P/N 2238397  
**\$10.95**

**MAS830L**  
P/N 220759  
**\$16.95**

**MAS838**  
P/N 2206061  
**\$34.95**

**MN35**  
P/N 645618  
**\$24.95**

**DDM645**  
P/N 2208462  
**\$49.95**

**179**  
P/N 185535  
**\$349.99**

**EX430**  
P/N 1581177  
**\$94.95**

**EX330**  
P/N 645626  
**\$59.95**

**DVM890F**  
P/N 645571  
**\$37.95**

**MN26T**  
P/N 211650  
**\$44.95**

**115**  
P/N 1537328  
**\$179.99**

**117**  
P/N 1537336  
**\$199.99**

**GSM881**  
P/N 2247381  
**\$17.95**

All meters come with probes/leads

★ Web Code: **HBK**

All meters come with probes/leads		★ Web Code: HBK		Basic Measurement Functions										Test Functions				Special Functions				★ Web Code: HBK			
Jameco Part No.	Manufacturer Part No.	No. of Functions	Display Count	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Battery Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H" x W" x D")	Jameco Part No.	Pricing	
												°C	°F											1	5
2247381	BenchPro GSM-881	6	6000	200mV - 600V	0V - 600V	200µA - 200µA	—	0Ω - 2MΩ	—		—	—	—	✓		✓						5.3 x 2.8 x 1.2	2247381	\$17.95	\$15.95
2131127	Velleman DVM810	7	1999	200mV - 500V	200mV - 500V	200µA - 10A	—	200Ω - 2MΩ	—		—	—	—	✓			✓					3.6 x 1.8 x 1.0	2131127	6.95	6.25
2230002	BenchPro DT830D	8	1999	200mV - 1000V	200mV - 750V	2000mA - 10A	—	200Ω - 2MΩ	—		—	—	—	✓		✓	✓					5.0 x 2.7 x 1.7	2230002	9.95	8.95
2238397	BenchPro DT182	8	1999	200mV - 500V	200mV - 500V	200mA - 10A	—	200Ω - 2000kΩ	—		50 - 200kHz	—	—	✓	✓	✓	✓					3.9 x 1.9 x 0.7	2238397	10.95	9.95
355207	Velleman DVM850BL	9	1999	200mV - 100V	200V - 600V	200µA - 10A	—	200Ω - 2MΩ	—		—	0 to 40	0 to 104	✓		✓	✓					5.4 x 2.7 x 1.2	355207	14.49	12.95
220759	Mastech MAS830L	9	1999	200mV - 600V	200V - 600V	200µA - 10A	—	200Ω - 2MΩ	—		—	0 to 40	0 to 104	✓		✓	✓					5.7 x 3.0 x 1.4	220759	16.95	14.95
2206061	Dawson DDM640	9	2000	200mV - 1000V	200mV - 750V	20µA - 10A	20µA - 10A	200Ω - 200MΩ	—	↔	—	—	—	✓		✓	✓					7.7 x 3.7 x 2.2	2206061	34.95	31.95
645618	Extech MN35	10	1999	200mV - 600V	200mV - 600V	200mA - 10A	—	200Ω - 20MΩ	—		—	-20 to 750	-4 to 1382	✓	✓	✓	✓					5.4 x 3.0 x 1.5	645618	24.95	22.49
2230029	Mastech MY61	10	1999	200mV - 1000V	200mV - 700V	2mA - 10A	2mA - 10A	200Ω - 200MΩ	2nF - 20µF		2 - 20KHz	-20 to 1000	-4 to 1832			✓	✓					7.4 x 3.5 x 1.2	2230029	29.95	26.95
185535	Fluke 179†	10	6000	600mV - 1000V	600mV - 1000V	60mA - 10A	60mA - 10A	600Ω - 50MΩ	1000nF - 9999µF		99.99 - 99.99k	-40 to 400	-40 to 752	✓		✓		✓	✓		✓	7.3 x 3.5 x 1.7	185535	349.99	—
2208462	Dawson DDM645	10	20,000	200mV - 1000V	2V - 750V	2mA - 10A	2mA - 10A	200Ω - 200MΩ	20nF - 200µF		20k	—	—	✓		✓	✓					2.2 x 3.7 x 7.7	2208462	49.95	44.95
1581177	Extech EX430	11	4000	.1mV - 1000V	.1mV - 750V	.1µA - 20A	.1µA - 20A	.1Ω - 40MΩ	.1nF - 100µF		.001 - 10M	-20 to 750	-4 to 1382	✓		✓	✓	✓			✓	7.4 x 3.2 x 2.0	1581177	94.95	89.95
645571	Velleman DVM890F	12	2000	200mV - 1000V	2V - 700V	2mA - 10A	20mA - 10A	200Ω - 20MΩ	2000pF - 20µF		—	-10 to 50	-58 to 1832	✓		✓	✓					6.7 x 3.5 x 1.5	645571	37.95	35.95
645626	Extech EX330*	12	4000	.1mV - 1000V	.1mV - 750V	.1µA - 10A	.1µA - 10A	.1Ω - 40MΩ	.001nF - 200µF		.001 - 10M	-50 to 1000	-58 to 1832	✓		✓	✓	✓			✓	5.7 x 2.9 x 1.6	645626	59.95	54.95
211650	Extech MN26T	12	4000	400mV - 600V	400mV - 600V	400µA - 10A	400µA - 10A	400Ω - 40MΩ	4nF - 200µF	↔	10 - 10M	-40 to 250	-40 to 482	✓		✓	✓	✓			✓	4.8 x 2.4 x 1.6	211650	44.95	39.95
1537328	Fluke 115†	15	6000	600mV - 600V	600mV - 600V	6A - 10A	6A - 10A	600Ω - 40MΩ	1000nF - 9999µF		99.99 - 50k	-10 to 50	14 to 122	✓		✓		✓	✓		✓	6.3 x 3.3 x 1.9	1537328	179.99	—
1537336	Fluke 117*†	16	6000	600mV - 600V	600mV - 600V	6A - 10A	6A - 10A	600Ω - 40MΩ	1000nF - 9999µF		99.99 - 50k	-10 to 50	14 to 122	✓		✓		✓	✓		✓	6.3 x 3.3 x 1.9	1537336	199.99	—

\*With non-contact voltage detector (100-600VAC range)

† With backlight

## 2.4GHz 2-Channel Frequency Counter

- 8-digit green LED display with annunciators
- Adjustable range and gate time
- Frequency ranges: 0.01Hz to 2.4GHz
- Gate time: 100 msec. to 10 sec.
- Channel A: DC coupled – 0.01Hz to 100Hz; AC coupled – 100Hz to 50MHz, sensitivity – 80mVrms, 1MΩ impedance
- Channel B: frequency range: 50MHz to 2.4GHz, sensitivity – 50mVrms, 50Ω impedance
- Size: 10.6"W x 8.5"D x 3.9"H • Weight: 3.5 lbs.

Part No.	Mfr. Part No.	1	5
1955968	DVM13MFC2U	\$149.95	\$134.95

## PC-Base Oscilloscope, Logic Analyzer and Pattern Generator

- 100MHz spectrum analyzer/FTF
- 200 MSa/s logic analyzer
- 100 Mpt/s pattern generator
- 60MHz bandwidth
- 2 GSa/s oscilloscope
- 8 logic analyzer inputs & 1 pattern generator

Part No.	Mfr. Part No.	1	5
2207241	MSO-19	\$249.95	\$234.95

★ Frequency Counters — Enter [Web Code VCG](#)

## Oscilloscope Tutor Kit

- This board generates a number of safe “real world” signals that can help you learn terms such as V/div, as well as the measurement quantities of AC, DC, frequency and more. Most experiments can be done with a digital or analog scope. Learn more about oscilloscopes with this kit!
- Signals: alternating current (AC), adjustable AC, full wave and half-wave rectified AC, smoothed direct current (DC), ripple, astable oscillator
  - No slodering required, assembled and tested
  - Power supply: 9-12VAC, min. 100mA (recommend P/N 100061)
  - Size 4.6"L x 2.9"W x 0.9"H

Part No.	Mfr. Part No.	1	5
2175568	EDU06	\$29.95	\$28.95

## Logic Probe Kit

- This kit will help you easily monitor digital signals, whether they are on or off. It tests digital circuits at various points to see if they are low, high, or constantly changing, which is perfect for troubleshooting several kinds of digital circuits including timers, clocks, counters and more.

Part No.	Mfr. Part No.	1	5
662725	EBLOG-300A	\$10.95	\$9.95

## 4, 8 & 16-Channel Logic Analyzers

- Edge and pulse width trigger
- Digital max. sample rates (range): 1-500MSPS\*
- Analog max. sample rates (range): 10-50MSPS\*
- Digital bandwidth (range): 3-100MHz square wave\*
- Analog bandwidth (range): 600kHz - 5MHz\*
- Compatible with Windows®, Linux and MAC OS®

**Includes:** Logic analyzer, flexible test lead set, micro-hook clips, USB cable and custom carrying case

Part No.	Description	Size (L" x W" x H")	Price
2217140	4-channel	1.7 x 1.7 x 0.39	\$109.00
2217131	8-channel	2.1 x 2.1 x 0.46	219.95
2217123	8-channel	3.6 x 3.6 x 0.59	479.95
2217115	16-channel	3.6 x 3.6 x 0.59	599.00

\*Dependent on logic analyzer and channel, available in red

## 17MHz Logic Probe

- Max. input frequency: 17MHz
- Minimum pulse width: 30ns
- Pulse flash time: 500ms
- Input impedance: 1MΩ
- Audible tones for high and low
- Power supply protection: ±20V
- TTL threshold: Lo = 0.8V ±0.2V, Hi = 2.3V ±0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC

Part No.	Cross Ref. No.	1	5	25
149930	LP3500	\$39.95	\$36.95	\$32.95

## Analog Panel Meters

- Includes mounting hardware
- **316507:** Includes current shunt

Part No.	Mfr. P/N	Range	Size (W" x H" x D")	1	10
316603	AVM6015	0 – 15VDC	2.4 x 1.8 x 1.3 ...	\$7.95	\$7.19
316671	AVM7015	0 – 15VDC	2.8 x 2.4 x 1.4 .....	7.95	7.19
316638	AVM6030	0 – 30VDC	2.4 x 1.8 x 1.3 .....	7.95	7.19
316654	AVM7030	0 – 30VDC	2.8 x 2.4 x 1.4 .....	8.49	7.49
315301	AIM60005	0 – 50µA	2.4 x 1.8 x 1.3 .....	7.95	7.19
316523	AIM6050	0 – 50mA	2.4 x 1.8 x 1.3 .....	7.75	6.95
316558	AIM60500	0 – 500mA	2.4 x 1.8 x 1.3 .....	8.49	7.49
316566	AIM60500	0 – 5A	2.4 x 1.8 x 1.3 .....	7.95	7.19
316582	AIM705000	0 – 5A	2.8 x 2.4 x 1.4 .....	8.49	7.49
316494	AIM6010A	0 – 10A	2.4 x 1.8 x 1.3 .....	7.95	7.19
316507	AIM6030A	0 – 30A	2.4 x 1.8 x 1.3 ...	11.49	10.49

★ Parallel LCD Displays — Enter [Web Code GCG](#)

★ 7, 14 & 16-Segment Displays — Enter [Web Code PBW](#)

★ Meters and Testers — Enter [Web Code EMT](#)

## Drill Mountable Panel Meters

- Mount by simply drilling a single hole (7/32") & insert the threaded section of the panel meter
- Module size: 1.71"L x 0.84"W

Part No.	Mfr. Part No.	Description	Digit Ht.	Supply Volt.	Measurement Range	1	5	25
2264535	302942	2½-digit, voltmeter (red)	.50"	3.5-30VDC	0-100VDC	\$7.95	\$6.95	\$6.25
2113201	EMV-1125	3½-digit, LCD volt/current meter	.50"	7.5-15VDC	200mV-20V/200µA-200mA	34.95	32.95	29.95
2095040	EMV 1200	3-digit, signal pwrd, LCD voltmeter	.50"	3-50VDC	4-25VDC	29.95	27.95	24.95
2095074	EMC 1500	5-digit, LCD hour meter	.35"	5-27VDC	99999 hours	34.95	31.95	28.95
2116584	V1	3½-digit, LCD voltmeter	.25"	7-12VDC	200mV-20V	17.95	17.49	16.95

★ For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

## LED/LCD Digital Panel Meters

- Input ranges: 200mV, 20V, 200V, 500V
- Input imped.: >100MΩ
- Accuracy: ±0.5%
- Automatic polarity indication
- Size: 1.8"W x 1.0"H (DFRobot meters)
- Size: 2.7"W x 1.7"H (Velleman & ValuePro meters)
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095, pg 111)

Part No.	* Mfr.	Mfr. Part No.	Description	1	10	25
2131135	VEL	PMLCDL	3½-digit LCD	\$7.95	\$7.19	\$6.49
2152323	DFR	DFR0130-B	3-digit LED (4.5V-30V w/ 1% accuracy)	10.95	9.95	8.95
2190768	DFR	DFR0244-B	LED current meter (blue)	9.95	8.95	7.95
2190776	DFR	DFR0245-R	LED current meter (red)	9.95	8.95	7.95
2253677	VEL	PMTEMP2	Panel meter w/ digital thermometer LCD	8.95	8.49	8.25
108388	JVP	PM-428†	3½-digit (no bezel, snap mount) LCD	8.95	7.95	6.95
2144606	JVP	CX102B	3½-digit red (4.75VDC-5.25VDC) LED	11.95	10.95	9.95
146835	JVP	PM-188BL†	3½-digit (w/ backlight display) LCD	14.95	13.49	11.95
2076121	VEL	PM/RES	Resistor set for Velleman meters	1.49	1.35	1.19

\* Mfr.: VEL = Velleman; DFR = DFRobot; JVP = Jameco ValuePro

† Cannot use in common ground app.

★ Web Code: **WBU**





# Benchtop Power Supplies & Magnifiers

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## Single Output Benchtop Power Supplies

- Voltage and current adjustable

\*Web Code: SAX



301971



2245503



207618



207600

Part No.	Mfr.	Mfr. Part No.	Voltage (VDC)/ Current (A)	Power (W)	Input Voltage (VAC)	Displays (Digits)	Short Circuit Protection	Overload Protection	Size (W" x H" x D")	Weight (lbs.)	Pricing	
											1	5
2130378	Velleman	PS1503SBU	15/3	45	220 @ 50Hz	2-Digital LCD (3.5)	Yes	No	8.4 x 6.0 x 3.8	6.7	\$89.95	\$84.95
301971	Lascar	PSU130	30/1	30	100/240 @ 47-63Hz	2-Digital LCD (4)	Yes	Yes	5.5 x 1.6 x 5.2	1.2	109.95	104.95
2245503	Velleman	LABPS3003SMU	30/3	90	120 @ 60Hz	3-Digital LED	No	Yes	3.35 x 6.3 x 8.0	2.9	99.95	94.95
207618	Mastech	HY3005C	30/5	150	115 ±10%	2-Analog	Yes	No	5.4 x 6.2 x 11.5	14	139.95	129.95
301938	BenchPro	HY3005	30/5	195	115/230 ±10%	2-Digital LED	Yes	No	11.5 x 5.25 x 6.25	10	149.95	134.95
207600	Mastech	HY5005	50/5	250	115/230 ±10% (switchable)	2-Digital LED (4)	Yes	No	10.4 x 6.5 x 14.4	17	199.95	189.95



## Multiple Output Benchtop Power Supplies

\*Web Code: SAX

These benchtop power supplies are a must for every laboratory. They sit out of the way of your workspace and stay ready to supply power at all times. Single and multiple outputs are available for your specific laboratory needs. Standard banana input jacks provide easy connections and precision adjustment knobs provide exact power outputs for all your projects. For more information, visit [www.jameco.com](http://www.jameco.com).

- Voltage and current adjustable



211693



301962



301947



2145828



197991



Part No.	Mfr.	Mfr. Part No.	Voltage (VDC)/ Current (A)	Power (W)	Input Voltage (VAC)	Displays (Digits)	Short Circuit Protection	Overload Protection	Size (W" x H" x D")	Weight (lbs.)	Pricing	
											1	5
211693	BenchPro	HY3003D-2	0-30/3; 0-30/3	180	115/230 ±10%	4-Digital LCD (3.5)	Yes	No	10.4 x 6.5 x 14.4	28	\$219.95	\$199.95
301962	Mastech	HY5003-2	0-50/3; 0-50/3	300	115/230 ±10%	2-Digital LED (3.5)	Yes	No	10.4 x 6.5 x 14.4	26	249.95	239.95
301947	Mastech	HY3005D-2	0-30/5; 0-30/5	300	115/230 ±10%	4-Digital LCD (3.5)	Yes	No	10.4 x 6.5 x 14.4	26.5	279.95	249.95
2145828	Unitech	PS-2303	0-30/3; 0-30/3; 5/3	195	110-120 @ 50-60Hz	4-Digital LED (3.5)	Yes	Yes	9.6 x 5.5 x 13.6	17.6	324.95	299.95
301955	Mastech	HY3005D-3	0-30/5; 0-30/5; 5/3	195	115/230 ±10%	4-Digital LCD (3.5)	Yes	No	10.4 x 6.5 x 14.4	29	299.95	279.95
197991	Extech	382213	0-30/3; 5/0.5; 12/0.5	98.5	110/120 @ 50-60Hz	2-Digital LCD (3)	Yes	Yes	6.0 x 5.6 x 9.5	11	188.95	179.95



## Workbench and Electronic Kit Super Combos

\*Web Code: SPC

Super Combo bundles are popular products that compliment each other packed into a single SKU so you can get the best bang for your buck. If you ever need a replacement or an extra, each of the components in these bundles are available separately.

Part No.	Description	Price
2244041	Tool: Crimper, stripper, cutter, plier, screwdriver, tweezers, heat sink clip .....	\$33.95
2244033	Solder: 35W iron, 6-piece tool kit, acid brush, heat sink clip, solder wick, bottle .....	26.95
2244130	Arduino: Uno, 27-piece Gravity sensor set, wall adapter, breadboard, jumper wire .....	144.95



2244041



## Magnifying Lamps

For anyone working with precision assembly, inspection or design, these magnifying lamps are essential for the workbench. Whether with incandescent or LED light, our selection will have you choose what best suits your needs to help reduce eye strain and vision fatigue. Easily view the smaller details.



2120330



2196924



2210600



2210597



\*Web Code: DAW

## Visor Magnifier with Light

- Power supply: 4 AAA batteries (not included)
- Adjustable diopter: 1.8/2.3/3.7/4.8
- Size: 7.9"L x 2.4"W x 5.5"H

Part No.	Mfr. Part No.	Wt. (oz.)	1	5
2131119	VTMG6	5.3	\$6.49	\$6.19



## Visor Magnifier with LED

Hands-free visor magnifier can be worn with elastic headband or just like another pair of glasses!

- Power supply: 3 AAA batteries (not included)
- Interchangeable diopter: 1/1.5/2.5/3.5x
- Dual LED keeps work area illuminated



Part No.	Mfr. Part No.	1	5
2246418	9892B1	\$19.95	\$17.95

\*Also contains 5 UV LEDs †INC = Incandescent



## Test Leads and Cables

**Pomona**  
PRODUCTS

**JAMECO** BenchPro

**WILLIAMS**

**VELLEMAN**

\* Web Code: RAC



Part No.	Manufacturer	Product No.	Description	Size (L")	1	10	25
159871	Pomona	2249-C-36	BNC male to male cable, RG58C/U, 50Ω, 20 AWG, black	36	\$17.95	\$16.95	\$15.95
2113877	Pomona	3957	BNC male to Multi-Stacking banana plugs (2nd End)	1.55	17.95	16.95	15.95
176971	Pomona	4532-C-36	BNC male to Mini alligator clips w/ strain relief, RG58C/U, 50Ω, 20AWG, blk	36	21.95	20.95	19.95
2218901	BenchPro	11384	BNC male to alligator clips, RG58C/U, 18AWG, 1 black, 1 red	20	4.95	4.49	3.95
11464	BenchPro	05-A-078-R	BNC male to Mini-clip test lead, RG174A/U, black	39	5.95	5.39	4.79
11422	BenchPro	05-A-081-R	BNC male to Micro-clip test lead, RG174A/U, black	39	5.95	5.39	4.79
2097150	Pomona	5187-C-36	BNC male to MiniGrabber test leads, RG58C/U 50Ω, 20 AWG, black	36	21.95	20.95	19.95
176954	Pomona	5187-K-36	BNC male to MiniGrabber test leads, RG174/U 50Ω, 26 AWG, black	36	31.95	29.95	28.95
256832	BenchPro	CBB-069	BNC female to pigtail, 20 AWG, 2 wire, 1 black, 1 red	7	5.95	5.39	4.79
2097168	Pomona	4969	BNC female to pigtail, 20 AWG, 2 wire, 1 black	9	8.95	8.25	7.95
2097555	BenchPro	CBB-070	BNC male to pigtail, 20 AWG, 2 wire, 1 black, 1 red	9	5.95	4.95	4.49
2113869	Pomona	3788	BNC female Minigrabber test clips (2nd end)	2.56	12.95	11.95	11.49
2113885	Pomona	5051	BNC female to #8 spade lugs	5.4	9.95	8.95	7.95
2158477	BenchPro	FC16A	Probes w/ right angle banana, screw on alligator clips, 1 black, 1 red	40	8.95	7.95	6.95
212222	Probe Master	8043S	Softie test probe leads, 10-pc. set, interchangeable tips, 18 AWG, 1 blk, 1 red	48	34.95	32.95	29.95
174625	Probe Master	8150	Micro-tip test probe leads rt. angle (w/10 plunger type tips), 1 blk, 1 red	39	44.95	42.95	39.95
168516	BenchPro	GA-5010	Universal test lead kit w/ 12 interchangeable tips, 1 black, 1 red	36	9.95	8.95	7.95
2113914	Pomona	5953A	Adjustable tip test probe set, tip adjusts up to 3", 1 black, 1 red	48	27.95	26.95	25.95
2212306	Velleman	TLM4	Banana plug, rt. angle to probe insulated leads, 1 black, 1 red	48	2.09	1.89	1.69
155951	Pomona	5519A	Banana plug rt. angle to probe, insulated leads, 18 AWG 1 blk, 1 red	48	16.95	16.49	15.95
77738	BenchPro	GF19-R	Protected banana style multimeter test leads, 1 black, 1 red	40	4.95	4.49	3.95
77746	BenchPro	FC-15B-R	Standard banana style multimeter test probes, 1 black, 1 red	42	6.95	6.25	5.59
2244391	BenchPro	13191-01	Alligator to breadboard pin, 2 pair, red/black	12	2.95	2.75	2.49
10444	BenchPro	GAL01	Alligator clip test leads, 24 AWG (19/36), 10-pc. assorted colors	21	5.95	5.39	4.79
2185483	BenchPro	GAL02	Alligator clip test leads, 24 AWG, 1 black, 1 red	21	1.95	1.75	1.49
2210239	BenchPro	GAL1016	Alligator clip test leads, 16 AWG, 2 sets, 5 colors	21	9.95	8.95	7.95
2210247	BenchPro	GAL0216	Alligator clip test leads, 16 AWG, 1 set (red/black)	21	5.95	5.39	4.75
159901	Pomona	B-24-02	Stackable banana patch cords, 18 AWG, 1 black, 1 red	24	11.95	11.49	10.95
159919	Pomona	B-36-02	Stackable banana patch cords, 18 AWG, 1 black, 1 red	36	11.95	11.49	10.95
2208884	BenchPro	CRF-TS0284TS-XX-250MM	Stackable banana patch cords, 16 AWG, 2 ea. (black,red,blue,white,yellow)	9.8	19.95	17.95	15.95
77842	BenchPro	CRF-TS0284TS-XX-330MM	Stackable banana patch cords, 16 AWG, 2 ea. (black,red,blue,white,yellow)	13	27.95	24.95	22.49
2272647	Mueller	61443	Banana jack to test probe tip	3	2.95	2.59	2.29
2212293	Velleman	TLM3	Alligator clip to banana plug, 18 AWG*	35.4	2.49	2.25	1.95
1814153	Pomona	1166-48-0	Multi-stacking banana plug to alligator clip, black	48	6.69	5.95	5.79
1814161	Pomona	1166-48-2	Alligator clip to stackable banana plug, 18 AWG, red	48	6.69	6.45	6.25
2218919	BenchPro	ACBP-20AWG1000-RB	Alligator clip to stackable banana plug, 20AWG, 1 black, 1 red	20	8.95	7.95	6.95
2224930	BenchPro	GCA340-SM	Alligator clip to stackable double banana plug, 18AWG	36	5.95	4.95	4.49
21857	BenchPro	05-A-082-R	Mini-clip to stackable banana test leads, black	39	4.95	4.49	3.95
21865	BenchPro	05-A-079-R	Mini-clip to stackable banana test leads, red	39	4.95	4.49	3.95
2189601	BenchPro	3782-36-02JVP	Mini-clip to stackable banana test leads, 1 black/ 1 red	39	8.95	7.95	6.95
159899	Pomona	3782-36-02	Mini-clip with stackable banana test leads, 20 AWG, 1 black, 1 red	36	13.95	13.39	12.95
135299	BenchPro	SF-207A-R	Mini-clip test leads, 26 AWG, 5 sets (blue, black, yellow, red, green)	14	10.95	9.95	8.95
156495	Pomona	5523-R	MiniGrabber™ test clip patch cord, 20 AWG 10-pc. assorted colors	24	49.95	46.95	44.95
155985	Pomona	2708B	9 slot test lead holder, accepts RG213 & RG214 wire sizes (blue)	11	14.95	14.49	13.95
155977	Pomona	4408	10 slot test lead holder, accepts RG59 & RG108 wire sizes (black)	11	11.95	11.49	10.95
155969	Pomona	1508	14 slot test lead holder, accepts RG58 & RG142 wire sizes (orange)	11	14.95	14.35	13.79
2196828	Velleman	TLMH	16 slot test lead holder, accepts RG59 & RG108 wire sizes (black)	13.8	19.95	18.95	17.95

\* Black, red, yellow

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Test Clips, Plugs & Posts

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## Test Clips, Plugs and Posts

**Pomona**  
TEST EQUIPMENT

**JAMECO** BenchPro

**KEYSTONE**

**NEW**  
MARKED IN PINK

\*Web Code: **TLC**



Part No.	Manufacturer	Product No.	Description	Size (in.)	1	10	100
<a href="#">71240</a>	BenchPro	GIP-003-R	Binding post, screw type, chassis mount 1 black, 1 red	1.0 L x .50 Dia.	<b>\$1.95</b>	<b>\$1.75</b>	<b>\$1.49</b>
<a href="#">2244295</a>	BenchPro	GHT-2266-B	Binding post, screw type, chassis mount 1 black	1.8 L x .50 Dia.	<b>1.09</b>	<b>.99</b>	<b>.89</b>
<a href="#">2244308</a>	BenchPro	GHT-2266-R	Binding post, screw type, chassis mount 1 red	1.8 L x .50 Dia.	<b>1.09</b>	<b>.99</b>	<b>.89</b>
<a href="#">77691</a>	BenchPro	GIP-001-R	Binding post, screw type, chassis mount 1 black, 1 red	1.8 L x .50 Dia.	<b>1.95</b>	<b>1.75</b>	<b>1.49</b>
<a href="#">1818779</a>	Pomona	3760-0	Binding post, accepts banana, wire, or spade lug, black	1.78 L x .44 Dia.	<b>3.95</b>	<b>3.69</b>	<b>3.49</b>
<a href="#">1818787</a>	Pomona	3760-5	Binding post, accepts banana, wire, or spade lug, green	1.78 L x .44 Dia.	<b>3.95</b>	<b>3.65</b>	<b>3.49</b>
<a href="#">2127742</a>	Pomona	3760-2	Binding post, accepts banana, wire, or spade lug, red	1.78 L x .44 Dia.	<b>4.09</b>	<b>3.79</b>	<b>3.55</b>
<a href="#">2205755</a>	BenchPro	WTA-60R-4PK	Binding post 4-pack, chassis mount, red/black/green/yellow	1.1 L x .30 Dia.	<b>3.95</b>	<b>3.59</b>	<b>3.29</b>
<a href="#">2215443</a>	Pomona	5935-0	Banana jack chassis mount, .079 solder tab black	.680 L x .260 Dia.	<b>.75</b>	<b>.65</b>	<b>.59</b>
<a href="#">1582188</a>	Keystone	6092	Banana jack, chassis mount, 0.182" solder tab, black	.937 L x .433 Dia.	<b>1.45</b>	<b>1.25</b>	<b>1.09</b>
<a href="#">1582170</a>	Keystone	6091	Banana jack, chassis mount, 0.182" solder tab, red	.937 L x .433 Dia.	<b>1.45</b>	<b>1.25</b>	<b>1.09</b>
<a href="#">2168528</a>	BenchPro	0584-BLK	Banana jack, chassis mount, solder tab, tin-plated, black	0.91 L x .43 Dia.	<b>1.49</b>	<b>1.25</b>	<b>1.09</b>
<a href="#">2168536</a>	BenchPro	0584-RED	Banana jack, chassis mount, solder tab, tin-plated, red	0.91 L x .43 Dia.	<b>1.49</b>	<b>1.25</b>	<b>1.09</b>
<a href="#">125197</a>	BenchPro	GBRR2-R	Screw mount double binding/banana post, black/red	1.6 L x 1.4 W	<b>3.95</b>	<b>3.59</b>	<b>3.29</b>
<a href="#">2144024</a>	Pomona	6883	Dual binding posts with base	1.9 L x .17 Dia.	<b>2.69</b>	<b>2.59</b>	<b>2.29</b>
<a href="#">2236172</a>	Kobiconn	174-R130REX	Banana jack binding post with threaded cap red	2.30 L x .47 W	<b>1.95</b>	<b>1.75</b>	<b>1.49</b>
<a href="#">2235938</a>	Kobiconn	1748103B-EX	Banana plug with safety sleeve, black	2.18 L x .40 W	<b>1.95</b>	<b>1.75</b>	<b>1.49</b>
<a href="#">72195</a>	BenchPro	GBP205-R	Set screw banana plug, 1 black, 1 red	1.6 L x .40 Dia.	<b>1.95</b>	<b>1.75</b>	<b>1.49</b>
<a href="#">137526</a>	BenchPro	HP-2234P-R	Set screw banana plug, 1 black, 1 red	2.3 L x .30 Dia.	<b>3.95</b>	<b>3.59</b>	<b>3.29</b>
<a href="#">159855</a>	Pomona	1325-02	Solderless stackable banana plug w/ set screw, 1 black, 1 red	1.55 L x .17 Dia.	<b>3.95</b>	<b>3.79</b>	<b>3.39</b>
<a href="#">2244615</a>	Pomona	1825-0-01	Solderless stackable banana plug w/ safety collar, 1 black	.44 L x .39 Dia.	<b>2.15</b>	<b>1.89</b>	<b>1.75</b>
<a href="#">2209289</a>	Pomona	1825-0	Solderless stackable banana plug w/ safety collar, 10 black	.44 L x .39 Dia.	<b>19.95</b>	<b>18.95</b>	<b>17.95</b>
<a href="#">2244607</a>	Pomona	1825-2-01	Solderless stackable banana plug with safety collar, 1 red	.44 L x .39 Dia.	<b>2.15</b>	<b>1.89</b>	<b>1.75</b>
<a href="#">2209300</a>	Pomona	1825-2	Solderless stackable banana plug with safety collar, 10 red	.44 L x .39 Dia.	<b>18.95</b>	<b>17.95</b>	<b>16.95</b>
<a href="#">159863</a>	Pomona	1825-02	Solderless stackable banana plug w/ safety collar, 1 black, 1 red	.44 L x .39 Dia.	<b>4.95</b>	<b>4.75</b>	<b>4.25</b>
<a href="#">159927</a>	Pomona	MDP-02	Solderless stackable dbl banana plug, w/ wire guide, red (set of 2)	1.55 L x 1.18 W	<b>6.49</b>	<b>6.19</b>	<b>5.59</b>
<a href="#">11440</a>	BenchPro	03-701A-R	BNC female to standard double banana plug, black	2.03 L x 1.7 W	<b>4.95</b>	<b>4.49</b>	<b>3.95</b>
<a href="#">125233</a>	BenchPro	GB1BN2	BNC female to double binding/banana posts, black	2.14 L x 1.8 W	<b>5.95</b>	<b>5.49</b>	<b>4.95</b>
<a href="#">99355</a>	BenchPro	GB2BN2	BNC male to double binding/banana posts, black	2.35 L x 1.7 W	<b>5.95</b>	<b>5.49</b>	<b>4.95</b>
<a href="#">2197783</a>	Arndt	XM-BLK	Micro test clip, 1 black	1.5 L	<b>.49</b>	<b>.45</b>	<b>.39</b>
<a href="#">114810</a>	BenchPro	G2P004-R	Micro test clip, 1 red, 1 black	1.7 L	<b>1.95</b>	<b>1.75</b>	<b>1.59</b>
<a href="#">114818</a>	BenchPro	G2P002-R	Mini test clip, 1 black, 1 red	3.5 L	<b>3.25</b>	<b>2.95</b>	<b>2.49</b>
<a href="#">2244623</a>	Pomona	4555-0-01	Mini grabber test clip, 1 black	2.35 L	<b>2.65</b>	<b>2.39</b>	<b>2.25</b>
<a href="#">2244631</a>	Pomona	4555-2-01	Mini grabber test clip, 1 red	2.35 L	<b>2.49</b>	<b>2.19</b>	<b>2.09</b>
<a href="#">248921</a>	BenchPro	SF101CP-R	Mini alligator clip, solder/crimp (set of 2)	1.2 L x .30 W	<b>.49</b>	<b>.45</b>	<b>.39</b>
<a href="#">248939</a>	BenchPro	SF-103CP-R	Mini alligator clip, solder/crimp (set of 2)	1.6 L x .30 Dia.	<b>.55</b>	<b>.49</b>	<b>.45</b>
<a href="#">256525</a>	BenchPro	SF105B-R	Alligator clip, barrel/screw, 2" (set of 2)	2.0 L x .20 Dia.	<b>.69</b>	<b>.65</b>	<b>.49</b>
<a href="#">2178081</a>	Pomona	5250	8-pin SOIC gold plated test clip	1.73 L x .43 W	<b>12.95</b>	<b>12.29</b>	<b>11.49</b>
<a href="#">70991</a>	BenchPro	GIP006-R	Insulated alligator clips, 1 black, 1 red	2.3 L x .50 W	<b>.65</b>	<b>.59</b>	<b>.55</b>
<a href="#">2215654</a>	BenchPro	SLV-1.2-R	Red insulator sleeve for P/N <a href="#">248921</a> (set of 2)	1.3 L x .30 Dia.	<b>.19</b>	<b>.15</b>	<b>.12</b>
<a href="#">2215662</a>	BenchPro	SLV-1.2-BK	Black insulator sleeve for P/N <a href="#">248921</a> (set of 2)	1.3 L x .30 Dia.	<b>.19</b>	<b>.15</b>	<b>.12</b>
<a href="#">248962</a>	BenchPro	SF-103SV-BK	Black insulator sleeve for PNs <a href="#">248939</a> & <a href="#">256525</a> (set of 2)	2.1 L x .20 Dia.	<b>.39</b>	<b>.29</b>	<b>.25</b>
<a href="#">248972</a>	BenchPro	SF103SV-RD-R	Red insulator sleeve for PNs <a href="#">248939</a> & <a href="#">256525</a> (set of 2)	2.1 L x .20 Dia.	<b>.39</b>	<b>.29</b>	<b>.25</b>
<a href="#">1581986</a>	Keystone	5001	PCB mini test point, looped, black, 0.100ID eyelet	.30 L x .09 Dia.	<b>.35</b>	<b>.29</b>	<b>.21</b>



Test/Tools

# Cutters, Strippers, Crimpers & Tool Kits

Xcelite®

JAMECO  
BenchPro

H

1000

## Wire Cutters/Strippers/Crimpers

molex®

\*Web Code: GBU



Part No.	Manufacturer	Mfr. P/N	Description	Functions			Size (L" x W")	Pricing	
				Cut	Strip	Crimp		1	5
179902	BenchPro	GPL-171	4" leaf spring cutters with flush side cutting, forged steel, cushion grip	✓			4.0 x 2.6	\$3.95	\$3.59
2123320	BenchPro	GPL-101	4.5" spring return cutters with flush side cutting, carbon steel, vinyl grip	✓			4.5 x 2.6	4.95	4.49
35482	BenchPro	AX103	4.3" Diagonal wire cutters, rubber handles, 0.5" cutting blade, 45° angle	✓			4.3 x 2.1	7.95	6.95
2203750	Plato	175LX	5.6" Ergonomic, ESD-safe shear lead cutter with guard, blue grips	✓			5.6 x 2.0	9.95	8.95
146712	Xcelite	170M	5" general purpose shearcutters, flush cutting, red cushioned grips	✓			5.0 x 2.5	7.49	7.25
217921	Xcelite	MS54J	4" oval head-flush diagonal cutters, flush cut, green cushioned grips	✓			4.3 x 1.8	21.49	20.49
217904	Xcelite	MS549JV	4" tapered head diagonal cutters, flush cut, green cushioned grips	✓			4.2 x 1.8	21.49	20.49
2112292	BenchPro	TTK-061	UTP/STP wire stripper, 3-24 AWG, shielded/unshielded/twisted pair cable		✓		3.5 x 1.3	2.95	2.59
159185	Hanlong	HT-332D	2-blade rotary coax cable strippers, 4 settings for cable sizes 4-12mm		✓		3.9 x 0.7	12.95	11.49
114535	Hanlong	HT-336G	Ratcheted BNC crimper, for RG58, RG59, RG62, RG174, and fiber optic			✓	8.5 x 2.5	25.95	23.49
78992	Hanlong	HT-108	5" cutter/strippers, 10-30 AWG, spring return, screw-adjustable wire gauge	✓	✓		5.0 x 3.0	5.95	5.49
215889	BenchPro	JE-2022C	5" cutter/strippers, 10-24 AWG, spring return, dial to adjust wire gauge	✓	✓		5.0 x 3.0	5.95	4.95
159274	Hanlong	HT-1091	5" cutter/strippers, 20-24 AWG, spring-loaded, insulated grips, 45° angle	✓	✓		5.0 x 3.0	5.95	4.95
2236666	Hanlong	HT-206	6-1/2" cable cutter, cuts copper to 3/8" Dia. closed lock	✓			6.5 x 2.5	12.95	11.95
2112284	BenchPro	GTA-002	Automatic wire strippers, 10-24 AWG, spring-loaded handle with wire stopper	✓	✓		6.8 x 3.2	9.95	8.95
159291	Hanlong	HT-5023	6.6" cutter/strippers, 20-30 AWG, cuts steel wire, scale markings in AWG/mm	✓	✓		6.6 x 2.0	10.95	9.95
99443	Hanlong	HT-202A	Non-insulated terminal crimper, for D-sub and non-insulated connectors	✓		✓	7.3 x 1.5	9.95	8.95
159266	Hanlong	HT-213	D-sub crimper, crimps D-sub pins and sockets, works with 20-28 AWG wire	✓		✓	7.0 x 4.0	15.95	14.49
161218	Ideal	45-121	6" cutter/strippers, strips 16-26 AWG stranded, 14-24 AWG solid, plier nose	✓	✓		6.0 x 2.0	17.95	15.95
175098	BenchPro	GTA-006H	Automatic strippers, 8-22 AWG, spring-loaded handle with wire stopper	✓	✓		7.0 x 3.5	18.95	16.95
2236851	Cal Term	1209	8.0" self adjusting stripper/crimper 8-22 AWG	✓	✓	✓	8.0 x 2.0	11.95	10.95
18797	Hanlong	HT-1041	7-in-1 wire-handling tool, 10-18 AWG, steel wire cutter, wire loop, red	✓	✓	✓	6.6 x 3.0	6.95	6.25
127862	Hanlong	HT-1042	7-in-1 wire-handling tool, 16-26 AWG, steel wire cutter, wire loop, blue	✓	✓	✓	6.6 x 3.0	7.95	6.95
127871	Hanlong	HT-1043	7-in-1 wire-handling tool, 22-30 AWG, steel wire cutter, wire loop, orange	✓	✓	✓	6.6 x 3.0	7.95	6.95
2153078	BenchPro	GRK-42N	8.5" cutter/crimper/stripper, ergonomic grip, 10-22 AWG, wire gauge markings	✓	✓	✓	8.5 x 3.0	7.95	6.95
2192376	BenchPro	HT-N5684	7.5" modular crimping tool, 8P8C/RJ45, 6P6C/RJ12, 6P4C/RJ11, 4P4C and 4P2C	✓	✓	✓	7.5 x 3.0	16.95	14.95
304928	Molex	63811-10007	Crimp tool for rectangular contacts, 14-24 AWG side entry, Mini Fit Jr. series	✓	✓	✓	7.5 x 3.0	54.95	50.95
304936	Molex	11-03-0044	Extraction hand tool, terminal housing and extraction, Mini Fit Jr. series	✓	✓	✓	7.5 x 3.0	20.95	19.95

JAMECO  
BenchPro

## 26-Piece SAE Hobby Tool Set

- 4-1/2" long nose pliers
- #1 & #2 Phillips bits\*
- #1 & #2 pozi bits\*
- 3/16" & 1/4" slotted bits\*
- Hex to 1/4" driver adapter\*
- Compact carrying case
- 4-1/2" diagonal cutting pliers
- T-10, T-15, and T-20 Torx bits\*
- 3" extension bar for 1/4" drive
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Size: 12.0"L x 9.0"W x 2.0"H • Weight: 1.5 lbs.



Part No.	Description	1	5	25
170069	26-pc. SAE tool set ...	\$12.95	\$11.49	\$9.95
2231321	10-pc. SAE bit set w/ listed items above*	3.95	3.59	3.29

\*Tool Kits — Enter Web Code CAA

\*Crimping Tools — Enter Web Code GBU

JAMECO  
BenchPro

## 95-Piece Pro-Tech Tool Kit

- Kit includes:
  - Navy blue storage box
  - 7-piece hex key set
  - 5-piece needle file set
  - 10-piece wrench set
  - 30W soldering iron
  - 8 different pliers
  - Hammer
  - 6-piece precision screwdriver set
  - Wire stripper/crimper
  - 29-pc. socket wrench set
  - Cushion grip screwdrivers
  - Inspecting mirror
  - Digital multimeter
  - Lead-free solder core
  - Desolder pump
  - 6" chrome-plated wrench
  - Stainless steel tweezer
  - Tape measure
  - Aluminum flashlight
  - Plastic flip-top box
  - Cleaning brushes
  - Mini drill with drill bits
  - Mini hobby vise
  - Elastic wrist strap
  - IC extractor
  - Electrical tape
- Size: 18.4"L x 13.4"W x 6.4"H



Part No.	Description	Wt. (lbs.)	Price
2153756	95-piece tool kit	20.6	\$199.95

JAMECO  
BenchPro

## 100-Piece Professional Electronics Tool Kit

- Kit includes:
  - Soldering iron
  - 4 Pliers
  - 12 screwdrivers
  - Tape
  - Crimper/Stripper
  - Vise
  - Adjust. wrench
  - Brush
  - 6-piece screwdriver set
  - 3-piece soldering aid kit
  - 7-piece hex key set
  - Extractor
  - Flashlight
  - Blade cutters
  - Solder pen
  - Wrist strap
  - 5-piece file set
  - Storage box
  - Desoldering pump
  - Soldering stand
  - Voltage tester
  - 10-piece wrench set
  - Vacuum cleaner
  - 2 bottles cleaning liquid
  - Cordless screwdriver kit (bits included)
- Aluminum case features removable pallets, surface-type locks, and black plastic handle
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 20 lbs.



Part No.	Description	1	5
242851	100-piece tool kit	\$159.95	\$149.95

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Pliers, Cutters, Drill Bits, Mini-Drill & Stand

3 LEVELS OF SAVINGS		
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Xcelite<sup>®</sup> EXIMCORP

JAMECO BenchPro

## Pliers

\*Web Code: XPC



Part No.	Manufacturer	Mfr. Part No.	Description	Length	1	5
34796	Eximcorp	BN2497	Bent oval diagonal nose pliers with smooth jaws, forged steel, heat-treated, spring-loaded, insulated grips*	4.5"	\$4.95	\$4.49
2233828	Eximcorp	BN2457	Bent nose oval plier with serrated jaws and cutter	5.25"	4.95	4.49
34622	Eximcorp	ES2494	Diagonal tapered spring loaded cutters, heat-treated, forged steel, insulated handle*	4.5"	4.95	4.49
94512	Eximcorp	SN2468	Straight square nose pliers with serrated jaws, forged steel, heat-treated, spring-loaded, insulated grips*	5.5"	4.95	4.49
94554	Eximcorp	NP2491	Standard nipper nose pliers, spring-loaded, forged steel, heat-treated, insulated grips*	4.25"	4.95	4.49
104257	Eximcorp	SP2460	Curved flat nose with smooth jaws, square pliers, forged steel, heat-treated, insulated grips*	8.0"	4.95	4.49
98993	Eximcorp	SBP2459	Bent square flat nose with smooth jaws, forged steel, heat-treated, insulated grips*	7.5"	5.95	5.39
35474	BenchPro	GPL-204-R	Flat long nose, stainless steel, spring return, durable rubber handles, knurled jaws	5.3"	5.95	5.39
177608	BenchPro	GPL-172	Half round long nose with cutters, drop forged steel, heat treated, spring return, vinyl grips, knurled jaws	4.5"	5.95	5.39
34712	Eximcorp	SN2482	Needle oval nose pliers with cutters and serrated jaws, forged steel, heat-treated, insulated grips*	5.25"	5.95	5.39
42104	Eximcorp	SN2469	Curved flat nose pliers with smooth jaws, forged steel, heat-treated, insulated grips*	5.25"	4.95	4.49
217891	Xcelite	L4V	Subminiature needle nose pliers, cushioned grips, general purpose use	4.0"	18.95	17.95
152055	Xcelite	S2K	Shearcutter pliers set with 5.6" needle nose plier and 5.2" electronic flush cutter, made of carbon steel	5.6" / 5.2"	19.95	16.95
2203637	Eximcorp	SN2483	Straight square nose pliers with smooth jaws, forged steel, insulated handle*	6.0"	4.95	4.49
217998	Xcelite	LN54GV	Thin long nose pliers with cushioned grips, smooth jaws, general purpose use	5.0"	20.95	19.95
146721	Xcelite	NN776V	Long needle nose flat pliers with cushioned grips, smooth jaws, general purpose use	6.0"	22.49	21.95
2100161	Eximcorp	EXIM10	10-piece pliers & cutters tool kit w/ the pliers marked above with an asterisk (*) and 5.3" diagonal cutters	4.25-8"	34.95	31.95

## Handheld Mini-Drill and Stand

JAMECO BenchPro

This Mini-Drill is excellent for drilling through circuit boards and protoboards. Drill stand is designed to function like a drill press.



12,000 RPM

Part No.	Description	Wt. (lbs.)	1	5	25
26702	GTT-103A drill	0.8	\$39.95	\$35.95	\$32.49
26711	GTT-104 stand	1.8	29.95	26.95	23.95

\*Drills and Bits — Enter Web Code NEJ

## 34-Piece Security Bit Set

These bits match the security fasteners commonly used in today's electronic products.

**Includes:** Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver

Part No.	Description	1	5
223829	32-piece security bit set	\$12.95	\$11.49

## PC Board Drill Bits

- Use for drilling holes in glass PC boards

Part No.	Size	Diameter	1	10	100
1919537	1/8	0.125" (3.175mm)	\$1.95	\$1.75	\$1.49
1919588	31	0.120" (3.04mm)	1.95	1.75	1.49
1919300	32	0.116" (2.94mm)	1.95	1.75	1.49
1919609	33	0.113" (2.87mm)	1.95	1.75	1.49
1919553	35*	0.090" (2.28mm)	1.95	1.75	1.49
1919570	38*	0.102" (2.59mm)	1.95	1.75	1.49
16619	75*	0.021" (0.533mm)	2.49	2.25	1.95

\*Black anodize

JAMECO BenchPro

## Mini-Drill Bit Kit

- Mini drill (26702)
- Mini drill stand (26711)
- Drill bit sizes 75 & 31 (P/Ns 16619/1919588)

Part No.	Description	Price
2113252	Mini-drill bit kit	\$59.95

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## 5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions

Part No.	Cross Ref. No.	Description	1	10
115107	HEM01	5" straight	\$3.95	\$3.59
115115	HEM02	5" curved	3.95	3.59

## Deluxe Precision Knife Set

- Three different knife handles — fine work, medium and heavy duty power grip
- Size: 6.3"L x 2.8"W x 1.4"H



Includes: 13 types of blades

Part No.	Description	1	10	100
72768	13 blade knife set	\$8.95	\$7.95	\$6.95

## Nibbling Tool

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum 0.375" hole required
- Size: 7.8"L



Part No.	Mfr. Part No.	Description	1	10
18810	HT204	Nibbling tool	\$9.95	\$8.95

JAMECO BenchPro

## T-Handle Reamer Tool

Excellent for aluminum chassis work

- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool



Part No.	Size	1	10
151750	3.3"L handle, 5.3"L tool	\$6.95	\$5.95

# Screwdrivers, Calipers & Miscellaneous Tools

## JAMECO BenchPro Ball-End, Hex Key, Screwdriver & Socket Sets

These small screwdriver and hex-key hand tool sets are great for working on small-scale jobs like electronics, computer repair, craft or models. The tools are stored in clam shell boxes or internally for convenience and organization. Get it right the first time around with these reliable tools.

- Delivers perfect balance between tip strength and working angle
- Ergonomically designed anti-roll handle
- Bondhus: Made in USA, ball-end inserts quickly into screw head up to 25 degrees

\*Web Code: CAQ

Part No.	Mfr.	Description	1	10
34059	BenchPro	6-pc. precision screwdriver set (Phillips #0 – 1/16", 5/64", 3/32", #1 – 1/8", 9/64")	\$3.95	\$3.59
168735	Xcelite	XP600 6-pc. ESD-safe screwdriver set, slotted & philips, vanadium steel w/ black oxide tips and case	27.95	26.95
226106	BenchPro	6-pc. precision 50 mm torx screwdriver set (Torx – T5, T6, torx hex – T7, T8, T9, T10)	11.95	10.95
226094	BenchPro	11-pc. magnetic AWL prec. screwdriver set (slotted – .9, 1.2, 1.4, 1.8, 2.4, 3 mm, Phillips – #00, #0, #1)	3.95	3.59
2096173	Bondhus	12-pc. ball-end hex key set (.05"; 1/16"; 5/64"; 3/32"; 7/64"; 1/8"; 9/64"; 5/32"; 3/16"; 7/32"; 1/4"; 5/16")	13.95	12.49
2231339	BenchPro	4-pc. metric 1/4" 6 point socket set (5mm, 6mm, 8mm, 10mm)	6.95	6.25
127271	BenchPro	6"L pocket screwdriver	1.95	1.59



## JAMECO BenchPro 5-Piece Needle File Set

- Round, square, tri-square, half-round, flat
- Color: black with red handle
- Made of heavy duty hardened steel • Each 7" long

Part No.	Description	1	10	25
2157589	5-piece file set	\$5.95	\$5.39	\$4.79

## JAMECO BenchPro 30 AWG Wire Wrap/Strip Tool

Recommended for use on 0.025" (0.63mm) square posts on 0.100" (2.54mm) center grids. The first 1-1/2 loop on the modified tool has wire insulation.

- Modified wrap for 30 gauge Kynar wire (pg 41)
- Knurled handle for easy grip • 5" long
- Wire stripper stored in handle

Part No.	Description	1	5
2150361	Modified wrap tool	\$19.95	\$17.95

## Jm Strip-Wrap-Unwrap Tools

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 41 for wire • 4.5" long
- 34585: wraps 1 to 2 turns of insulated portion of wire for secure connections

Part No.	Mfr.	Part No.	1	5
236785	HSR30 (Regular)		\$27.95	\$25.95
34585	HSM30 (Modified)		29.95	27.95

## 1/4 & 1/2-Watt Resistor & Capacitor Lead Forming Tool

- Watt size indicates appropriate package size
- Bends lead length in 0.05" increments
- Lead spacing: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"

Part No.	Description	Size (L" x W")	1	10
106884	1/4W & 1/2W	5.4 x 1.5	\$4.95	\$4.49

## JAMECO BenchPro PLCC & DIP IC Extractors

Part No.	Manufacturer	Description	1	10	100
16838	BenchPro	DIP	\$2.95	\$2.59	\$1.95
2173175	BenchPro	PLCC	2.49	2.25	1.95
16766	Velleman	PLCC	2.95	2.75	2.49

\*Web Code: MAB

## JAMECO BenchPro Tweezers

- 252929: Straight round, fine-point tip, stainless steel
- 253092: Curved fine-point tip
- 252938: Self-closing reverse-action tweezers; medium point tip; stainless steel

\*Web Code: FAA

Part No.	Length	Photo	1	10	25
252929	4.75"	1	\$2.95	\$2.49	\$1.95
253092	4.6"	2	2.95	2.49	1.95
252938	4.6"	3	2.95	2.49	1.95
253113	4.75"	4	2.95	2.49	1.95
2235129	4.75"	2	6.95	6.25	5.59

## JAMECO BenchPro 4-Pcs. Steel Tweezer Set

Part No.	Description	1	10	100
10735	4-piece tweezer set	\$5.95	\$5.49	\$4.95

## XYTRONIC Vacuum Tweezers

- Easy interchangeable tips
- ESD safe body

Part No.	Mfr.	Includes	207239	1	5
207239	Xytronic	4 tips/cups	\$15.95	\$14.49	
2183939	Xytronic	3 tips/cups	24.95	22.49	

## 22"L Anti-Static Plastic DIP IC Storage Rails & Rubber Rail Stops

Part No.	Description	Pins	1	10	100
29516	.300"W rail	8,14,16,18,20,22 ...	\$ .29	\$ .25	\$ .22
29524	.600"W rail	24,28,36,40	.29	.25	.22
29583	Rubber stop	—	—	—	—

## JAMECO BenchPro IC Pin Straightener

Part No.	Size (L x W x H)	1	10	100
99363	3.3" x 1.5" x 0.4"	\$7.95	\$6.95	\$5.95

## Anti-Static Work Mats and Foam

These mats are made of attractive semi-conductive vinyl that provide adequate discharging yet will not short leads or pins.

Part No.	Dimensions	Wt. (lbs.)	1	10	25
10576	11.3" x 22"	0.7	\$9.95	\$8.95	\$7.95
10584	19.5" x 23.5"	1.1	12.95	11.49	9.55
2130853	19.7" x 23.6"	1.1	14.95	13.49	11.95
2152075	24" x 48"	—	69.95	64.95	59.95
2237896	12" x 6"	—	4.95	4.49	3.95
13864	24" x 12"	—	12.95	11.95	10.95

\* Foam

\*Anti-Static — Enter Web Code XAA

## Anti-Static Wrist Straps

- Comfortable, adjustable black Velcro wrist strap
- The coiled grounding cord has banana plug and alligator clips
- Extended cord: 9' L (2131266: 6' L)

Part No.	Mfr.	Color	1	10	100
34552	BenchPro	Black/yellow	\$4.79	\$4.29	\$3.89
2202087	3M	Disposable	1.49	1.25	1.09

## JAMECO BenchPro Field Service Static Kit

- 4 pockets for ESD safe storage
- 10' ground strap and 6' wrist strap share on one ground point
- Size: 2' x 2.13'

Part No.	Cross Ref. No.	1	5	25
2113720	8PK-AS07-1	\$14.95	\$13.95	\$12.95

## JAMECO BenchPro Digital Display Calipers

### Metric and Inches

- Hardened stainless steel
- Display: inches to 0.001; mm to 0.01
- Instructions for making internal, external, depth and step measurements
- One-year warranty

Includes: Fitted case and 1.5V LR44 battery (replacement battery, P/N 140783, pg 111)

Part No.	Description	1	5
127482	Measures 6" (150mm)	\$27.95	\$25.95
2153545	Measures 8" (203mm)	34.95	31.95

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Heat Guns & Soldering Equipment

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## Weller® 12-Watt Li-Ion Battery Powered Soldering Iron

Provides 45 minutes of continuous soldering.

- Li-Ion battery charges in about 3 hours
  - Cordless, round, co-molded handle designed for comfort
  - Stable heat shield base with built-in side stand
  - 12 watt performance, up to 1070°F/580°C
  - LED illumination and modular tips
- Includes:** BL60 iron, 0.031" conical tip, charger base, tool stand and plug-in power supply.



Part No.	Mfr. Part No.	Description	Price
2246493	BL60MP	12W solder iron	\$68.95
2246506	BL10	0.031" conical tip	9.95
2246522	BL12	0.047" conical tip	9.95
2246514	BL11	0.125" chisel tip	9.95

## XYTRONIC® 16 to 30-Watt Variable Soldering Iron & Stand

- 116572:** Length: 7.5"  
**36329:** • Black anodized steelbase – 5.3" L x 3.3" W  
 • See below for replacement sponge (P/N 134631)  
 • Fits most soldering irons .85" dia.

**Includes:** Sponge

Part No.	Description	1	5	25
116572	258VL soldering iron ...	\$17.95	\$15.95	\$14.49
36329	Soldering stand	4.95	4.49	3.95
134631	Sponge (for P/N 36329)	2.95	2.59	2.29

## Weller® 18-Watt Pro Series Soldering Iron

- Heats up to working temperature in just 35 seconds
  - Up to 900°F temperature
  - Co-molded grip for a comfortable feel
  - Performance equivalent to a 60 watt iron
  - Designed be self-standing, no stand is needed
  - Tips use a phono jack and plug for easy tip exchange • UL and CUL listed
  - Ideal for hobbies, kits, radios and electronics
- Includes:** Charger and WPS10 soldering tip



Part No.	Mfr. Part No.	Description	1	5
2153810	WPS18MP	18-watt iron	\$28.95	\$27.95
2158637	WPS11	0.03125" chisel tip ...	9.95	8.95
2158629	WPS10	0.03125" conical tip ...	9.95	8.95

## Weller® 25 & 35-Watt High-Quality Soldering Irons

- 120VAC @ 60Hz
- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar • Length: 9"

**Includes:** Power cord & ST3 tip (pg 123)

Part No.	Mfr. Part No.	Description	1	5
170587	WP25	25W solder iron ..	\$44.95	\$43.95
192102	WP35	35W solder iron ....	55.95	53.95
146608	ST1	Screwdriver tip 1/16"	3.69	3.49
146616	ST3	Screwdriver tip 1/8"	4.95	4.75
192145	ST6	Screwdriver tip .031"	3.95	3.69
146624	ST7	Conical tip 1/32"	3.95	3.69

## NTE® Heat Guns and Strippers

Heat guns are ideally suited for drying, heating, welding, shrinking, soldering, desoldering and many other applications where heat is required.



Part No.	Mfr.	Product No.	Description	Watts	Heat Setting (°F)	Temp. (°F max.)	1	5
2232796	BenchPro	TT79001	Compact heat gun for light duty	350	494-575	575	\$17.95	\$15.95
2117413	NTE	HG300-D	Mini heat gun	350	482-662	662	24.95	22.49
254925	BenchPro	1001A	Economical heat gun	1200	600 & 1000	1000	42.95	39.95
2244480	BenchPro	866B	Adjustable heat gun	1800	140-1112	1112	19.95	18.95
2007062	BenchPro	1004	Accessory kit for P/N 254925	—	—	—	11.95	10.95

## Weller® 20-Watt Soldering Iron

A high-quality, mains-powered soldering iron for general purposes.

- Power supply: 20W/110VAC
- UL approved
- Cord length: 5 feet

**Includes:** Iron stand

Part No.	Mfr. Part No.	1	5
2131151	VTS20U	\$6.95	\$6.25

## XYTRONIC® 25-Watt Thermally Balanced Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.

- 120VAC; 6' cord • Length: 8.0"
- 25-watt power consumption
- Interchangeable tips (pg 124)
- One-year warranty

**Includes:** 1.6mm conical tip

Part No.	Mfr. Part No.	1	5	25
129040	200GX-25W	\$9.95	\$8.95	\$7.95

## JAMECO® BenchPro 35-Watt Soldering Iron

A high quality, mains powered soldering iron for general purposes.

- 110-120VAC • 35-watt
- Long life tip
- Cord length: 5'
- 5' solder tube
- UL/CUL approved

Part No.	Cross Ref. No.	1	5	25
2228367	CL-1	\$9.95	\$8.95	\$7.95

## JAMECO® BenchPro Glue Gun and Glue Sticks

- Adheres to PCBs, cardboard, wires, metal and cloth
- Silicon nozzle
- Electronic heating
- Trigger action
- Utilizes 100mm long gluesticks (2 sticks included) • Size: 7.3" L x 6.3" W

Part No.	Description	1	5	25
72696	Glue gun	\$8.95	\$7.95	\$6.95
78633	Glue sticks (6/pk)	2.95	2.59	2.29

## Weller® LED Soldering Irons

- 3 high-temperature LEDs with 25 lumen light intensity
- Each iron includes soldering aid tool, tip and user's manual
- 2174901/2174928 includes soldering aid tool, lead-free solder and 2 spare soldering tips

Part No.	Mfr. Part No.	Description	1	5
2174901	SP25NKUS	25W soldering iron kit	\$19.95	\$18.95
2174936	SP40NUS	40W soldering iron	19.95	18.95
2174928	SP40NKUS	40W soldering iron kit	23.95	22.95

## XYTRONIC® 40 & 60W High-Performance, Economical Soldering Irons

- Iron length: 9"
- 120VAC; 6' cord with 3-prong plug
- High-performance double-wound nichrome heating element
- Flexible, burn-resistant silicon cable

Part No.	Description	1	5	25
224602	40W soldering iron	\$9.95	\$8.95	\$7.95
195223	60W soldering iron	10.95	9.95	8.95
226018	Conical tip for P/N 224602	3.95	3.59	3.29

## XYTRONIC® 60-Watt Replacement Soldering Iron

- Compatible with the following XYtronic soldering stations: 168-3C, 168-3CD, 9-60A and 9-60D.

Part No.	Mfr. Part No.	1	5
2144649	XY-207ESD	\$34.95	\$31.95

\*Soldering Stands — Enter Web Code YAU

## Weller® 100-Watt Soldering Iron

- "Closed loop" method of controlling max. tip temperature
- Nominal heat-up time with 700°F tip is 110 seconds
- Length: 6"
- 120VAC @ 60Hz input • Weight: 0.7 lbs.

**Includes:** CT6F7 (0.375" screwdriver tip; 700°F)

Part No.	Mfr. Part No.	Description	1	5
192081	W100PG	Solder iron	\$64.95	\$62.95
192090	CT6F7	.375" screwdriver tip ..	6.95	6.75

## Replacement Sponges

For XY-60D, XY-379 & XYT379-C

Part No.	Mfr. Part No.	Size (in.)	1	5	25
134631	78-465715	1.7 x 2.1	\$2.95	\$2.59	\$2.29
236460	78-744615	1.8 x 2.9	2.95	2.59	2.29

\*Prototyping Boards — Enter Web Code PBH

\*Soldering Irons — Enter Web Code QAS

- Cord strain relief for extended life
- Durable cable with 5-foot reach





## Weller® 40-Watt Soldering Station

- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 120V @ 60Hz
- Temp. is electronically controlled from 350°F to 850°F
- Illuminated on/off switch • Light weight pencil iron
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.

**Includes:** ST3 1/8" screwdriver tip and manual

Part No.	Mfr. Part No.	1	5
146595	WLC100	\$51.49	\$49.95
2082783	WCC104 Sponge	2.25	1.95

## Velleman 50W Soldering Stations

- Manual temperature setting
- Electronic temperature control
- Power-on LED indication
- Input voltage: 115VAC
- Input power: 50VA max.
- Temp. range: 374°F to 896°F (2130626); 302°F to 842°F (2196801)
- Size: 7.3" x 4.0" x 3.5" • Weight: 1.6 lbs.

**Includes:** AC cord, iron stand and sponge

Part No.	Mfr. Part No.	Description	1	5
2196801	VTSS4NU	48W station ....	\$24.95	\$22.49
2130626	VTSS5U	50W station ....	21.95	20.49
2174864	BITS5	Conical tip .....	1.75	1.49

**\* Soldering/Desoldering Stations — Enter Web Code GEJ**

## Weller® 50-Watt Analog & Digital Display Soldering Stations

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery.

- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temp. lockout
- Auto power-down after 90 minutes of inactivity • Temp. accuracy: ±9°F
- Temperature range: 350°F to 850°F • ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

**Includes:** PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

Part No.	Mfr. Part No.	Description	1	5
217461	WES51	Analog .....	\$128.95	\$122.49
233533	WESD51	Digital .....	179.95	174.95
2082847	PES51	Soldering iron .....	46.95	44.95
2082783	WCC104	Replacement sponge ..	2.25	1.95

## HAKKO 70-Watt Digital ESD-Safe Soldering Station

- Adjustable temp. control
- Temperature range: 122°F to 896°F (50°C to 480°C)
- Ceramic heating element and sensor ensures rapid heat-up temperature and fast thermal recovery
- Password protected temperature setting

**Includes:** iron stand, brass wool cleaner, sponge, AC cord, conical tip

Part No.	Mfr. Part No.	1	5
2174611	FX888D-29BY/P	\$105.95	\$101.95

**\* SMD Rework Stations — Enter Web Code NAT**

## Weller® 60-Watt ESD-Safe Soldering Station

- Temperature controllable: 600°F, 700°F or 800°F
- Closed-loop method of controlling maximum tip temperature to protect sensitive components
- Ferromagnetic temperature sensor, no adjustments necessary
- Quick disconnect plug for soldering iron and lighted on/off switch • Weight: 4.0 lbs.
- Impact-resistant plastic power unit
- Input: 120VAC @ 60Hz • Size: 5.9"L x 4.5"W x 3.6"H

**Includes:** Power unit, soldering pencil with PTA7 tip (below), stand and sponge

Part No.	Mfr. P/N	Description	1	5
170552	WTCPT	Solder station .....	\$179.95	\$174.95
192161	TC201T	Replacement iron .....	97.95	94.95
192188	PTA7	Screwdriver tip 700°F	3.95	3.75
192196	PTA8	Screwdriver tip 800°F	3.95	3.75

## 60 & 80W Lead-Free Digital Soldering Stations

**Grounded Soldering Tip**

- 150°C to 480°C (302°F to 896°F)
- Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100MΩ
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 4.1"L x 3.5"W x 3.5"H • Weight: 2.5 lbs.

**Includes:** Manual, soldering iron with 1/32" tip, stand, tip cleaner and sponge

**156814:** Sharp conical chisel tip

**156822:** Conical chisel tip

Part No.	Mfr. Part No.	Description	1	5
2174733	LF-389D	60W station .....	\$59.95	\$53.95
2193782	LF-399D	80W station .....	64.95	58.95
156814	XYB01	1/32" tip .....	3.95	3.59
156822	XYB04	1/16" tip .....	3.95	3.59
134631	SP715	Sponge .....	2.95	2.59

## 100-Watt Soldering & Desoldering Station with Fume Extractor

- Input voltage: 110-120VAC @ 60Hz
- Soldering iron: 32VAC/100W 150°C to 480°C (302°F to 896°F) • Size: 4.2"W x 3.6"D x 5.0"H
- Desoldering iron: 32VAC/100W 300°C to 450°C (572°F to 842°F) • Weight: 28 lbs.
- Heater and sensor failed detection and temperature lockout features • Digital temperature readout

**Includes:** 307A soldering iron, DIA100 desoldering iron, soldering stands, fume extractor, AX205 micro cutting pliers, 5-piece high precision tweezers, filter and cleaning accessories, AC power cord and manual

Part No.	Description	1	5
2099198	LF-8800 station .....	\$299.95	\$284.95
127634	Desolder tip 1.0mm .....	5.95	5.49
2095509	Desolder tip 1.2mm .....	7.95	7.19
2095517	Desolder tip 1.5mm .....	7.95	7.19

## 120-Watt ESD Safe, Digital Lead-Free Soldering Station

- Input: 220-240VAC @ 50Hz, 100-120VAC @ 60Hz
- 0-volt. switching circuitry
- Precise temp. regulation
- Heater/sensor failure detection
- Temperature range: 200°C to 500°C (392°F to 932°F)
- PTC sensor for quick heat-up time
- Temp lock out feature, password protected
- High-quality sensor and heat transfer technology
- Aluminum housing • Size: 4.4"W x 6.2"H x 5.4"D

**Includes:** Separate iron holder with brass tip cleaner, soldering tip and AC cord

Part No.	Mfr. Part No.	Wattage	1	5
2181503	LF-3200	120W .....	\$129.95	\$119.95

## Weller® Soldering Tips

**ST Series:** Replacement tips for WLC100, WP25, WP30, WP35 soldering irons and stations.

Precision ground copper tips plated with iron, nickel and chromium

**\* Web Code: NAB**

**ET Series:** Replacement tips for PES51 soldering pencil (P/N 2082847). Contains a sensor hole in base of tip fitted with a stainless steel liner

**MT Series:** Replacement tips for SP23 and SP23D soldering irons. Solid copper tips, nickel-plated and tinned

Part No.	Mfr. P/N	Description	1	10
146616	ST6	Screwdriver tip 1/32" ...	\$3.95	\$3.69
146608	ST1	Screwdriver tip 1/16" .....	3.69	3.49
2137975	ST2	Screwdriver tip 1/10" .....	3.95	3.69
146616	ST3	Screwdriver tip 1/8" .....	4.95	4.75
146624	ST7	Conical tip 1/32" .....	3.95	3.69
2137983	ST5	Single flat tip 1/32" .....	3.95	3.69
16774	ETA	Screwdriver tip 1/16" .....	4.49	3.95
2138020	ETH	Screwdriver tip 1/32" .....	4.19	3.75
16782	ETJ	Long screwdriver tip 1/32" ..	4.49	3.95
16803	ETR	Narrow screwdriver tip 1/16" ..	4.49	3.95
2137991	ETP	Conical tip 1/32" .....	4.49	3.95
16811	ETS	Long conical tip 1/64" .....	4.49	3.95
2138011	ETO	Long conical tip 1/32" .....	4.49	3.95
2138003	MT1	Cone-shape tip 1/8" .....	4.95	4.75

Part No.	Mfr. P/N	Description	1	10
192145	ST6	Screwdriver tip 1/32" ...	\$3.95	\$3.69
146608	ST1	Screwdriver tip 1/16" .....	3.69	3.49
2137975	ST2	Screwdriver tip 1/10" .....	3.95	3.69
146616	ST3	Screwdriver tip 1/8" .....	4.95	4.75
146624	ST7	Conical tip 1/32" .....	3.95	3.69
2137983	ST5	Single flat tip 1/32" .....	3.95	3.69
16774	ETA	Screwdriver tip 1/16" .....	4.49	3.95
2138020	ETH	Screwdriver tip 1/32" .....	4.19	3.75
16782	ETJ	Long screwdriver tip 1/32" ..	4.49	3.95
16803	ETR	Narrow screwdriver tip 1/16" ..	4.49	3.95
2137991	ETP	Conical tip 1/32" .....	4.49	3.95
16811	ETS	Long conical tip 1/64" .....	4.49	3.95
2138011	ETO	Long conical tip 1/32" .....	4.49	3.95
2138003	MT1	Cone-shape tip 1/8" .....	4.95	4.75

## CHIPQUIK® SMD Removal Kit

- Potential damage to printed circuit boards is eliminated
- 2.5' of CHIPQUIK® material removes 1250-1500 SMD pins

**Includes:** 2.5 ft. removal alloy material, 1cc syringe rework paste flux, alcohol pads for cleaning & complete instructions

Part No.	Description	1	5
141305	SMD removal kit .....	\$14.49	\$13.95

**\* Soldering Tips & Sponges — Enter Web Code NAB**

**\* Solder — Enter Web Code ABD**

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Soldering Equipment, Solder Kits & Tips

3 LEVELS OF SAVINGS		
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## 80-Watt SMD Rework Stations



2120541



2099219

- Thermocouple sensor for stable temp.
- Rapid heat-up and recovery
- 2120541**: • Size: 7.4"L x 5.0"W x 3.3"H • Wt.: 2.6 lbs.
- Adjustable temperature: 482°F-842°F (250°C-450°C)
- 2099219**: • Size: 8.8"L x 6.0"W x 4.5"H • Wt.: 6.8 lbs.
- Adjustable temperature: 392°F-896°F (200°C-480°C)

**Includes:** Base power unit, sponge, stand, surface mount tweezer iron and stand for tweezers

Part No.	Description	1	5
2120541	SMD rework tweezer station .....	\$59.95	\$54.95
2099219	Soldering & tweezer combo station ...	124.95	114.95
156814	SMD conical tip (1/32") .....	3.95	3.59

## 30-Watt Solder Tool Kit

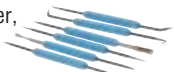
**Includes:** Soldering iron with stand, long nose pliers, wire strippers, side cutters & sponge



Part No.	Description	1	5
358598	7-piece tool soldering kit .....	\$15.95	\$14.95

## 6-Piece Solder Aid Tool Kit

**Includes:** Various tips: chip holder, spacer, reamer, lever, needle, knife, fork shaft, hook and brush



Part No.	Cross Ref. No.	1	5
2096000	GSR-107 .....	\$6.95	\$6.25

## 600 & 1000-Watt Lead-Free Hot Air SMD Rework Stations

- Incorporates the largest pump in the industry
- Long life ceramic heater insures accurate and sufficient heat where you need it
- Automatic cooling mode protects the heating element
- Adjustable air-flow: **2128032**: 1.5-40L/min; **2174741**: 1.5-7.1L/min.
- Nichrome heating element
- Power supply: 100-120VAC @ 60Hz or 220-240VAC @ 50Hz
- Electronically controlled temperature system with digital readout in preset and actual temperature
- Hot air temp. range: 100°C - 480°C (212°F - 896°F)
- Temp lock-out feature, password protected
- Sensor/pump failure detection
- Static-free circuit design
- 25W diaphragm pump
- Size: 7.3"W x 5.3"H x 9.6"D • Weight: 10.8 lbs.



2128032



2174741

**2128032 includes:** Extra 600W heater, 4 focus hood tips, 5 stainless steel anti-magnetic tweezers, IC popper for IC extraction

**2174741 includes:** 2 focus hood tips, 5 stainless steel anti-magnetic tweezers, IC extractor

Part No.	Mfr. P/N	Description	1	5
2128032	LF-852D	600W station .....	\$199.95	\$179.95
2174741	LF-852D-II	1000W station .....	219.95	199.95

**\*SMD Rework Stations — Enter Web Code NAT**

## 900-Watt Lead-Free, ESD-Safe Soldering Rework Station

- 3-in-1 design: soldering, desoldering and hot air station
- 2 LED displays
- Temperature and air pressure settings
- Temperature-lock feature
- Heater and sensor failure detection
- Input voltage: 100-120VAC @ 60Hz
- Soldering iron temperature range: 302°F - 896°F
- Desoldering iron temperature range: 572°F - 842°F
- Hot air temperature range: 212°F - 896°F
- Fume extractor air volume: 95/115 CFM



**Includes:** Soldering iron, desoldering iron, hot-air iron, fume extractor, extra heating element, 2 soldering iron stands, 4 hood tips and 5 tweezers

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
2128041	LF-853D	26.5 .....	\$474.95	\$459.95

## Heat Sink Clip

Heat sink absorbs and dissipates heat during soldering & desoldering of sensitive parts



Part No.	Description	1	10	25
100378	Clip-on heat sink .....	\$1.49	\$1.25	\$0.99

## Solder Super Combo

**Includes:** 6 oz. pump bottle, 6pc scraper set, 6" acid brush, heat sink clip, 35W solder iron, solder and solder wick.



Part No.	Mfr. Part No.	1	5	25
2244033	JESC-2000 .....	\$26.95	\$24.49	\$21.95

## Tips & Replacement Parts for XYtronic Soldering and Desoldering Products

**\*Web Code: NAB**



156814



207327



156822



207298



127642



2095509



2095517



2135136



2135152



2144171



2144163



2144155

Test/Tools

For XYtronic Model Numbers (*Legacy Models)										Pricing		
Part No.	Mfr. P/N	Description	168 2359L JS238*	138E30 319-C-3890 LF-1600	168 2400X XY960A A530 D530 168-3C	960D*	968	9995DA*	LF-8000, 1650	1000 LF-8000 LF-7000 200PHG	L307A LF-8000 LF-8800	LF-8550 LF-3000 LF-3200
35318	XY48	Assembly - 60W w/ nichrome heater			✓			✓				
35326	XY401	Soldering tip - conical bevel 1/32"	✓		✓	✓	✓	✓	✓	✓		
35078	XY402	Soldering tip - semi-chisel 1/32"	✓	✓	✓	✓	✓	✓	✓	✓		
35334	XY403	Soldering tip - conical sharp 1/64"	✓	✓	✓	✓	✓	✓	✓	✓		
35115	XY404	Soldering tip - conical chisel 1/16"	✓	✓	✓	✓	✓	✓	✓	✓		
35238	XY405	Soldering tip - semi-chisel wide 1/8"	✓	✓	✓	✓	✓	✓	✓	✓		
207335	XY406	Soldering tip - long conical chisel 3/64"	✓	✓	✓	✓	✓	✓	✓	✓		
207351	XY410	Soldering tip - chisel 3/16"	✓		✓	✓	✓	✓	✓	✓		
156814	XYB01	Soldering tip - sharp conical chisel 1/32"		✓								
207327	XYB03	Soldering tip - conical sharp 1/64"		✓								
156822	XYB04	Soldering tip - conical sharp 1/16"		✓								
207298	XYB05	Soldering tip - semi-wide chisel 1/8"		✓								
127642	XYD12	Desoldering tip - 1.2mm (.0472")				✓	✓	✓			✓	
2095509	XY12	Desoldering tip - 1.2mm (.0472")								✓		
2095517	XY15	Desoldering tip - 1.5mm (.0586")						✓	✓	✓		
2135136	44-710654	Soldering tip - conical 0.2mm (.007")									✓	
2135152	44-710662	Soldering tip - chisel 2.4mm (.094")									✓	
2144171	44-413081	Soldering tip - conical 0.5mm									✓	
2144163	44-413072	Soldering tip - semi-chisel 0.8mm									✓	
2144155	44-413069	Soldering tip - flat 1.6mm									✓	



# Vises, Soldering Stands, Solder Pots & Fume Extractors

## Electric & Manual Desolder Pumps

- Easily disassembles for cleaning
- Replacement tips available

**2168261:**

- UL listed
- One-hand operation
- Size: 10.5"L x 1.0"Dia.

**2131215:** Size: 7.5"L x 0.8"Dia.

**1942139:** Size: 13.3"L x 1.0"Dia.

**19166:** Size: 7.8"L x 0.8"Dia.



2168261



19166



1942139



\* Web Code: **FXC**

Part No.	Description	1	5
<b>2168261</b>	Electric desolder pump, 30W	\$29.95	\$26.95
<b>2131021</b>	Vacuum desolder pump, 30W	9.95	8.95
<b>2131215</b>	Manual desolder pump*	4.75	8.49
<b>2131160</b>	Manual aluminum desolder pump	6.95	6.25
<b>1942139</b>	High vacuum manual desolder pump	8.95	7.95
<b>19166</b>	Non-electric desolder pump	8.95	7.95
<b>2168270</b>	1 tip for P/N 2168261	5.95	5.39
<b>2146610</b>	1 tip for P/N 1942139	1.75	1.49
<b>2158776</b>	1 tip for P/N 2131021	1.75	1.59
<b>22091</b>	2 tips for P/N 19166	5.95	5.39

\* Antistatic tip

## 11-Piece Soldering Aid Tool Kit

This kit combines all the tools you need in order to begin soldering.

**Kit includes:**

- 30-watt UL listed soldering iron
- Soldering iron stand
- Heat sink clamp
- Small slotted screwdriver with stripper
- Medium slotted screwdriver
- Medium philips screwdriver
- Tool case
- Pliers
- Soldering tool
- Diagonal cutters



Part No.	Cross Ref. No.	1	5
<b>2132322</b>	GTK-059A	\$22.95	\$20.95

## 360° Clamp Vise

- Ball cup allows vise to adjust to any angle
- Rubber jaws open 2"
- Size: 10.0"L x 2.5"W

**Includes:** Interchangeable pipe vise attachment

Part No.	Cross Ref.	Wt. (lbs.)	1	5
<b>127167</b>	OR-307	2.1	\$17.95	\$15.95

## Circuit Board Clamping Kit

- Lightweight, easy to carry
- Retractable shelf and adjustment knob
- Max. board size: 7.8" x 5.5"
- Size: 11.8" x 6.5" x 4.9"



Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
<b>2237036</b>	VTHH6	1.0	\$10.95	\$9.95

## PANA VISE PV Jr. Vise

- Jaw size: 1" wide x 2" long; opening: 2.8"
- Jaw heat tolerance: 350°F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- Vise height: 6.8"
- Weight: 1.4 lbs.
- Base bolt is 4.3" and fits all PanaVise base mounts



Part No.	Mfr. Part No.	1	5
<b>134439</b>	PVJR 201	\$29.95	\$26.95



## 300-Watt Solder Pot

**Temperature Regulated Between 420°C & 450°C**

- 2 conductor power cord: 5' 9" long
- Holds up to 2.2 lbs. of solder bars recommend P/N 176057, pg 126
- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base)
- Size: (tub) 2.4"Dia. x 1.6"D
- One-year warranty



Part No.	Description	Wt. (lbs.)	1	5
<b>1951625</b>	300W solder pot	5.9	\$84.95	\$74.95

## Magnifier Third Hands

- Great for when two hands aren't enough
- 2 adjustable clamps for easy board hold
- 3.5" diopter 4 (2x magnification)
- 2196756:** With iron stand, 2 LEDs and mini diopter 20 (6x magnification)



2196756

Part No.	Mfr. Part No.	Size (in.)	1	5
<b>2196756</b>	VTHH3	8.3 x 6.7 x 4.3	\$19.95	\$17.95
<b>2196764</b>	VTHH4	5.3 x 6.9 x 4.7	13.95	12.49



## Third Hand Tools

- Two adjustable arms with alligator clip jaws
- Quick and easy rotation
- Sturdy, heavy base



681002



Part No.	Description	Size	Wt. (lbs.)	1	5
<b>26690</b>	Third hand	2.0"	1.4	\$7.95	\$6.95
<b>681002</b>	With holder/sponge	3.5"	1.7	9.95	8.95



## Helping Hand with LED Magnifier Lamp

This is perfectly suited for soldering comfortably while keeping one hand free.

- Large lens with 2x magnification
- Small embedded lens to 4x magnification of extremely small parts
- Ring light with 16 LEDs and gooseneck for optimum lighting
- Easily adjustable hinge
- Adjust. third hand w/ 2 alligator clips
- Additional flexible 9.8" (250mm) gripping arm with alligator clip
- Solder wire reel holder
- Soldering iron holder
- Cast-iron base
- Stand size: 7.0"W x 7.0"H



**Includes:** Power adapter and sponge

Part No.	Description	Wt. (lbs.)	1	5
<b>2168587</b>	Helping hand	2.9	\$74.95	\$69.95



## LED Lighted Helping Hand

- Two alligator clip jaws
- Two LED lighting with adjustable gooseneck for optimum lighting
- Main lens of 2.56" with 3.5x magnification and accessorial lens of 0.67" with 12x magnification
- Bottom battery compartment is furnished with steel plate base for great stability



**Includes:** 3 AAA batteries

Part No.	Description	1	5
<b>2218302</b>	Lighted helping hand	\$13.95	\$12.49

## Weller® 20-Watt Fume Extractor

This fume extractor removes flux fumes from the soldering workbench by drawing smoke through an activated carbon filter. With its exceptionally quiet fan, it can process up to 1.37 cubic meters of air per minute and its stand is adjustable, allowing it to be set-up in multiple positions.



- Voltage: 120VAC
- Air consumption: 87-107CFM
- Power consumption: 20W
- Absorption capacity: 1.25 cubic meters to 1.37 cubic meter per minute
- Size: 10"L x 6.5"W x 11"H
- Sound level: 45-50dB
- ESD safe
- UL/CUL listed

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
<b>684810</b>	WSA350	4.2	\$70.95	\$67.95
<b>684828</b>	WSA350F (carbon filter)	0.02	7.95	7.49



## 22-Watt Fume Extractor

**Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan**

- Operate continuously providing filtered air
- Static ground jack
- Fuse protected
- Noise: 49dB fan
- Air flow: 115 CFM
- 120VAC, 60Hz, 22 watts
- Uses 130mm filters
- Large surface area with adjust. angles
- Size: 7.2"W x 5.4"D x 7.9"H
- One-year warranty



**Includes:** Detachable power cord

Part No.	Description	Wt. (lbs.)	1	5
<b>2171786</b>	Fume extractor	2.6	\$39.95	\$35.95
<b>127183</b>	Replace. filters (3/pk)	0.05	7.95	6.95



## 60-Watt Combo Soldering Station and Fume Extractor

- Power consumption: 42W @ 650°F (soldering iron)
- Adjustable knob for temperature control: 500°F to 842°F
- Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- LED indicator for pilot light
- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D



**Includes:** Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
<b>183169</b>	456DLX	5.2	\$69.95	\$62.95

\* Fume Extractors — Enter Web Code **HAR**

## Deluxe Soldering Iron Stand

Holds all the essentials in one unit.

- Solder roll holder fits 1lb. spools
- Holds iron, solder and cleaning sponge pad
- Handle for easy carrying
- Size 3.3" x 3.3" x 5"



Part No.	Mfr. Part No.	1	10
<b>2196772</b>	STAND60	\$11.95	\$10.95

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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# Vises, Soldering Accessories & Tape Products

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## PANAVISE Multi-Purpose Work Center

- Jaws open to 9"
- Double action extra wide self-centering heads allow fast opening and closing; centered weight allows jaws to hold heavier objects; plates can be reversed to close together; reversible jaw pads feature ribbing on one side and a V groove on the other
- Base has three 1/4" countersunk mounting holes
- Overall base diameter is 8.5"

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
684852	350	5.0	\$94.95	\$89.95

## Electronic Work Center

- Size: 8.5"W x 7.8"H
- Includes: Circuit board holder, standard base, tray base mount and wire holder

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
27060	324	5.3	\$94.95	\$89.95

## PANAVISE Rapid Assembly Circuit Board Holder

- 8 positions rotating adjustment, six positive lock positions in the vertical plane and height adjustment for quick board rotation speeds
- Holds circuit boards from 1/8" (3.2mm) to 12" (304.8mm) wide and up to 5/32" (4mm) thick
- Arms move independently • 10" high

Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
684844	333	6.4	\$86.95	\$79.95

## JAMECO BenchPro Vacuum Base Vise

- Features the patented "split ball" that tilts, turns and rotates through three planes
- Powerful suction pad for quick and easy set-up
- Nylon jaws open 2.25"
- Size: 5.0"L x 4.0"W x 6.3"H

Part No.	Product No.	Wt. (lbs.)	1	5
262116	GV-300	3.3	\$34.95	\$31.49

\* Vises — Enter Web Code TAD

## JAMECO BenchPro Solder Spool Stand

- 12 pc. solder spool stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft diameter: 0.6"

Part No.	Description	Wt. (lbs.)	1	5	25
141761	Solder stand	1.6	\$12.95	\$11.49	\$9.95

## Soldering Tip Cleaner with Stand

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability

Part No.	Description	Wt. (lbs.)	1	5	25
156777	Tip cleaner and stand	0.5	\$6.95	\$6.39	\$5.79
160004	Metal wool replacement	0.1	2.95	2.59	2.29



## Solder Bars, Rolls and Pocket Packs

Due to extraordinary price fluctuations, solder prices are subject to change.

Part No.	Manufacturer	% Composition				Diameter Inches/mm	Weight	Type†	Pricing	
		Tin	Lead	Silver	Copper				1	10
2210132	Kester	60	40	—	—	0.025/0.64	1.0 lbs.	1	\$31.49	\$29.95
2238135	BenchPro	60	40	—	—	0.025/0.64	1.1 lbs.	1	29.95	26.95
73576	Kester	60	40	—	—	0.031/0.787	0.5 oz.	2	2.59	2.45
32117	Kester	60	40	—	—	0.031/0.787	1.08 lbs.	1	29.95	28.49
2184616	Kester	60	40	—	—	0.062/1.57	1.03 lbs.	1	34.95	29.95
141786	BenchPro	60	40	—	—	0.031/0.787	1.13 lbs.	1	26.95	23.95
176057	BenchPro	60	40	—	—	12.5x0.75x0.44	1.1 lbs.	3	29.95	27.95
2188220	Kester	60	40	—	—	0.05/1.27	1.0 lbs.	1	32.95	29.95
94570	Kester	60	40	—	—	0.05/1.27	1.3 oz.	2	4.29	4.09
2210124	Kester	60	40	—	—	0.040/1.02	1.0 lbs.	1	29.95	28.49
73605	Kester	62	36	2.0	—	0.02/0.51	0.35 oz.	2	2.95	2.75
2177694	BenchPro	63	37	—	—	0.015/0.38	1.0 lbs.	1	29.95	25.95
2237571	Kester	63	37	—	—	0.020/0.51	1.0 lbs.	1	39.95	36.95
2210116	Kester	63	37	—	—	0.025/0.64	1.0 lbs.	1	32.49	30.95
2237626	Kester	63	37	—	—	0.031/0.79	0.5 oz.	2	3.59	3.29
2210087	Kester	63	37	—	—	0.031/0.79	1.0 lbs.	1	31.49	28.95
2238143	BenchPro	63	37	—	—	0.031/0.79	1.1 lbs.	1	27.95	24.95
151474	Kester*	63	37	—	—	0.031/0.787	1.0 lbs.	1	30.95	29.49
2188246	Kester	63	37	—	—	0.031/0.787	1.0 lbs.	1	31.49	29.95
2237589	Kester	63	37	—	—	0.040/1.02	1.0 lbs.	1	30.95	29.49
2158178	Kester	63	37	—	—	0.05/1.27	1.0 lbs.	1	30.95	29.49
2237600	Kester	63	37	—	—	0.062/1.57	1.0 lbs.	1	30.49	28.95
668262	BenchPro	96.3	—	3.2	0.5	0.04/1.02	7.2 oz.	1	39.95	35.95
2113172	Kester	96.5	—	3.0	0.5	0.031/0.787	0.43 oz.	2	4.49	4.25
170457	BenchPro	99.3	—	—	0.7	0.031/0.787	0.8 oz.	2	3.25	2.95
668078	BenchPro	99.3	—	—	0.7	0.04/1.02	9.15 oz.	1	26.95	23.95
209075	BenchPro	99.3	—	—	0.7	0.031/0.787	1.0 lbs.	1	34.95	31.95

\* Organic core † 1. Roll; 2. Packet; 3. 13" Bar



## 5' Desolder Braids

Part No.	Manufacturer	Product No.	Description	Width (in.)	1	10
2188748	Philips	ZW050-5	Zip wick, Military/NASA certified, 5'	.005	\$2.49	\$2.25
2192430	Philips	ZW100-5	Zip Wick Military/NASA certified, 5'	.100	2.95	2.39
2203776	Techspray	1821-5F*	No-Clean, Military/NASA certified, 5'	.055	2.49	2.25
124126	Techspray	1815-5F	No-Clean, Military/NASA certified, 5'	.055	4.95	4.49
2203784	Techspray	1822-5F*	No-Clean, Military/NASA certified, 5'	.075	2.95	2.65
124118	Techspray	1816-5F	No-Clean, Military/NASA certified, 5'	.075	4.49	3.95
2203792	Techspray	1823-5F*	No-Clean, Military/NASA certified, 5'	.098	2.95	2.59
263708	Techspray	1817-5F	No-Clean, Military/NASA certified, 5'	.098	4.95	4.49
2203805	Techspray	1825-5F*	No-Clean, Military/NASA certified, 5'	.193	3.95	3.59
2203768	Techspray	1810-5F*	Pro Wick, pure rosin 5'	.075	2.75	2.49
263695	Techspray	1803-5F	Pro Wick, pure rosin, type R, 5'	.075	3.95	3.59
263599	Techspray	1804-5F	Pro Wick, pure rosin, 5'	.098	4.49	3.95
41082	BenchPro	GISW20	Desolder braid, solder wick, 5'	.079	1.95	1.75
41100	BenchPro	GISW25	Desolder braid, solder wick, 5'	.098	1.95	1.75
153462	BenchPro	GSR104D	Desolder braid, solder wick, 5'	.120	2.49	2.25
2113130	Chemtronics	60-3-5	Soder-Wick® no clean size 3, 5'	0.08	4.95	4.49
2113148	Chemtronics	60-4-5	Soder-Wick® no clean size 4, 5'	0.11	4.95	4.49

\* Anti static



## Tape Products

\* Web Code: TPS

Part No.	Description	Color	Width	Length	Thickness	1	10	50
285587	Vinyl electrical tape, Tartan 1710, UL	Black	.75"	20 yards	.007"	\$1.49	\$1.35	\$1.19
2153764	Vinyl electrical tape, temflex	Black	.75"	20 yards	.007"	1.39	1.25	1.09
1643551	Embossed copper foil, 1245 tape	Copper	.50"	18 yards	.004"	20.95	19.49	18.95
2235663	Polyimide film and silicone tape	Amber	.50"	36 yards	.007"	39.95	38.95	37.95

\* Web Code: ABD



141786



2188220



2237626



2238143



2113172



170457



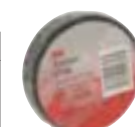
263708



263695



2113148



285587

# Workshop Chemicals & Heat Sink Compounds



## Workshop Chemicals & Heat Sink Compounds

**NEW**  
MARKED IN PINK

Part No.	Manufacturer	Description	Vol. (oz.)	1	5
615769	GC Electronics	Adhesive, sealant, silicon, one part, non corrosive, clear	3	\$4.95	\$4.49
2134539	Craig/DeoxIT	DustALL compressed air for removing dust & particles, 152a, trigger valve & tube*	10	5.95	5.49
2112524	ChipQuik	Cleaner & tinner, soldering tip for pre-tinning & tinning*	8†	7.95	7.19
2094231	Craig/DeoxIT	Cleaner wash, contact evaporates quickly, safe on plastics*	10	9.95	8.95
2246661	Craig/DeoxIT	Clean & protect electronic contacts & connections, quick dry, adjustable valve, mini*	1.4	14.95	13.49
2246670	Craig/DeoxIT	Gold G-Series electronic connection & contact cleaner, quick dry, adj. valve, mini*	1.4	14.95	13.95
195004	Craig/DeoxIT	Cleaner, contact dioxidizer & preservative, improves electronic connections*	5	14.95	13.95
2094215	Craig/DeoxIT	Cleaner & conditioner for soldering tips. Removes oxide & flux build up	0.5	9.95	8.95
2188043	Craig/DeoxIT	Cleaner & tinner for activating and regenerating oxidized tips	1.5	9.95	8.95
616331	GC Electronics	Conductive paint, Silver Print II*	0.5#	51.95	49.49
2110529	Craig/DeoxIT	Circuit writer pen, silver based, draw & repair traces, works on rubber, epoxy, glass, plastic	5g†	23.95	22.75
525851	Chemtronics	Cotton swabs, double headed, 6" handle, 100-pack	—	5.95	5.59
2157941	3M	Electrical coating FD, fast drying sealant and bonding agent	15	32.95	29.95
2246653	Craig/DeoxIT	Etching solution for printed circuit boards, ready to use. Ferric chloride*	16	12.95	11.65
616438	GC Electronics	Etching solution, PC board, ferric chloride solution*	32	19.95	17.95
2188262	MG Chemicals	Ferric chloride copper etchant solution, etches PCBs 175-200 pinch/minute*	33	16.95	15.95
139934	Techspray	Freeze spray, Envi-Ro-Tech, circuit chiller, CFC and HFC free	8	18.95	17.95
615355	GC Electronics	Heat sink compound, 100% synthetic base stocks type 44	16†	32.95	29.95
2246709	Craig/DeoxIT	Heat sink compound, silicone-based zinc oxide & polydimethyl siloxane, tube	0.21	4.95	4.49
236823	ValuePro	Heat sink compound, silicon based grease	0.35†	4.95	4.49
167249	Aavid Thermalloy	Heat sink compound, silicon based grease	2†	10.79	10.25
169252	Techspray	Heat sink compound, silicon free. Functional range: -40°F to 392°F	4†	28.95	27.95
259151	NTE	Heat sink compound, white gel, thermal grease (5 pack)	1g†	3.49	2.95
615312	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	0.23†	3.95	3.59
615321	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	1†	6.95	6.25
615304	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	16†	20.49	19.49
2188289	MG Chemicals	Liquid isopropyl alcohol, general purpose cleaner	33.8	14.95	13.85
2201771	MG Chemicals	Liquid rosin flux pen, fully activated, RA type, non-corrosive, non-conductive	0.34	8.95	7.95
118041	Techspray	Solder flux remover, ECONOLINE, CFC free, aerosol can	13.5	15.49	14.49
2237634	Kester	Solder flux dispensing pen, non-rosin organic, low solids no clean*	0.33	8.95	8.49
2237642	Kester	Solder flux dispensing pen, mildly activated liquid rosin*	0.33	9.95	8.95
1586015	Chipquik	Solder flux, tack for rework, no clean, 10cc with syringe	0.34	14.95	13.95
481764	Techspray	Solder flux, dispensing pen, No-clean, resin & halide free leaves no residue	0.38	8.95	7.95
2246688	Craig/DeoxIT	Solder flux, rosin paste, No-Clean for electronic soldering applications, syringe	0.3	7.95	7.09
2246696	Craig/DeoxIT	Solder flux, rosin paste, No-Clean for electronic soldering applications, jar	2	9.95	8.95
615224	GC Electronics	Solder flux, liquid, non corrosive, solution of special rosin in alcohol*	2	8.49	7.95
615232	GC Electronics	Solder flux, liquid, non corrosive, solution of special rosin in alcohol*	16	24.95	22.49
2094258	Craig/DeoxIT	Solder flux, rosin paste for electronic applications including PCBs	2	10.95	9.95
2113092	Chemtronics	Solder flux, rosin dispensing pen, for electronic applications including PCBs	0.32	11.95	10.95
2098208	Chipquik	Solder paste, 63% SN, 37% PB, no clean 10cc with syringe	0.34	20.95	19.95
2098224	Chipquik	Solder paste, 63% SN, 37% PB, no clean 10cc with syringe, water washable	0.34	22.95	21.95
2097441	Chipquik	Solder paste, 96.5% SN, 3% AG, 0.5% CU, no clean 10cc w/ syringe	0.34	22.95	20.95

\* Shipped via ground to continental U.S. only    # Troy ounces    † Measured by weight



### ProtoDough Reusable Prototyping Design Plastic

- Create custom molds of any design quickly and easily with hot water
- Non-toxic, lightweight and paintable
- Can be drilled, sawed and machined
- Melting point temperature: 136°F-140°F
- High elongation break points
- 3.5mm pellets
- Safe for hand molding

Part No.	Cross Ref. No.	Description	1	5
2208286	Proto Dough-250G	250 gram bag	\$12.95	\$11.65
2208307	Proto Dough-1000G	1000 gram bag	34.95	31.95



\* Workshop Chemicals — Enter Web Code YAQ

\* Heat Sink Compounds — Enter Web Code YBA



### Cleaning Brush

- Metal handle

Part No.	Description	Length	1	10	100
153322	Soft bristles	6" ....	\$0.69	\$0.55	\$0.49

### Plastic Pump Bottle

- 6 oz. bottle
- Plastic bottle with dispenser cover
- Color: light blue
- Solvent dispenser
- ESD compliant

Part No.	Cross Ref. No.	1	5	25
158131	450 .....	\$14.95	\$13.49	\$11.95

### Clip-On Heat Sink

- Absorbs and dissipates heat during soldering and desoldering sensitive parts

Part No.	Cross Ref. No.	Size	1	10	100
159126	HT156	2.7"L x 0.7"W	\$2.95	\$2.59	\$2.29

\* Cleaning Tools — Enter Web Code CLE

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Solderless Breadboards & Jumper Wires

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY



## Solderless Breadboards

The screen-printed color coordinates are suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use with Jameco's AC/DC breadboard power supply, P/N 77682 pg 129.

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry
- Ideal for high frequency and low noise circuits
- Pins are identified by numbered rows and columns
- 0.1" hole spacing
- Components are easily interconnected using 20-28 AWG wire (P/N 19290 & 20080, below left)
- One-year warranty



★ Web Code: HAC



20758



20812

Part No.	Manufacturer	Product No.	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size (L" x W")	Baseplate Size (L" x W")	Weight (lbs.)	Pricing			
										1	10	50	100
2155452	ValuePro	WBP-317	1	0	170	0	1.9 x 1.3	—	0.03	\$2.95	\$2.59	\$2.29	\$1.95
2155461	ValuePro	WBP-323	1	2	270	0	2.6 x 1.6	—	0.05	3.95	3.59	3.29	2.95
2157693	ValuePro	BB-801	1	2	400	0	3.3 x 2.1	—	0.11	4.49	3.95	3.59	3.25
20601	ValuePro	WBU-301-R#	1	2	400	0	3.3 x 2.1	—	0.13	4.95	4.49	3.95	3.59
2229175	ValuePro	MKKN2\$	1	2	400	0	3.3 x 2.1	—	0.09	3.95	3.59	3.25	2.95
2157706	ValuePro	BB-102†	1	2	830	0	6.5 x 2.2	—	0.21	5.95	5.39	4.79	4.29
20723	ValuePro	WBU-202-R#	1	2	830	0	6.5 x 2.2	—	0.30	9.95	8.95	7.95	6.95
2125026	ValuePro	BB830T\$	1	2	830	0	6.5 x 2.2	—	0.3	7.95	6.95	6.25	5.59
194272	Wisher	WBU-204-1-R#	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	15.95	14.95	13.95	12.95
20758	ValuePro	WBU-204-3-R#	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	14.95	13.49	11.95	10.95
20774	ValuePro	WBU-204#	2	4	1,660	3	6.5 x 4.4	8.5 x 5.2	0.70	19.95	17.95	15.95	14.49
136901	Wisher	WBU-504	2	3	1,855	4	5.3 x 5.6	7.5 x 6.3	0.90	18.95	17.95	16.95	15.95
2157722	ValuePro	BB-3T5D†	3	5	2,390	4	6.9 x 5.8	8.7 x 7.2	1.28	19.95	17.95	15.95	14.49
20791	ValuePro	WBU-206#	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	26.95	23.95	21.95	19.95
2157731	ValuePro	BB-4T7D†	4	7	3,220	4	7.3 x 7.5	9.3 x 8.1	1.60	26.95	23.95	21.95	19.95
20812	ValuePro	WBU-208#	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	35.95	32.95	29.95	26.95

† Interconnect with each other

# Interconnect with each other

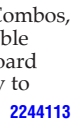
\$ Adhesive back/no baseplate



## Breadboard & Jumper Wire Prototyping Super Combos

★ Web Code: HAC

As with all our other Super Combos, the components are all available separately, so if your breadboard is now a nest of wire, it's easy to replace one or both!



Part No.	Description	Price
2244105	70-piece wire jumper kit with 14 lengths, 10 colors and 400 point breadboard	\$10.95
2244113	350-piece wire jumper kit with 14 lengths, 10 colors and 3220 point breadboard	43.95
2244084	170-point breadboard with single center terminal strip, 1.3"x1.9", red	2.59
2244092	170-point breadboard with single center terminal strip, 1.3"x1.9", blue	2.59



## Powered Project Breadboard

- Solderless breadboard with 2,420 tie points
- Outputs are short-circuit protected
- Includes: 3-prong power cord
- Input power: 110VAC or 220VAC @ 50-60Hz (switch selectable)
- Triple output power supply: fixed 5VDC @ 1.5A; 0 to ±16VDC @ 0.5A (adjustable)
- Breadboard size: 6.9"L x 5.8"W
- Overall size: 9.8"L x 7.8"W x 3.0"H



Part No.	Description	Wt. (lbs.)	1	5
1942163	5VDC @ 1.5A & ±16VDC @ 0.5A	5.8	\$129.95	\$114.95

## Breadboard and Jumper Wire Kit

This kit is perfect for easy prototyping!



Part No.	Description	1	5	25
2134993	830-point breadboard with 70-piece wire kit	\$12.95	\$11.95	\$10.95



## Wire Jumper Kits

19290

- 0.1" to 5.0" lengths (14 sizes)
- Clear plastic durable case
- 22 AWG solid wire jumpers in 10 colors
- Pre-stripped/preformed

★ Web Code: LAS

Part No.	Description	1	10	50	100
2127718	70-piece kit, 5 of each length	\$5.95	\$5.35	\$4.79	\$3.95
2096018	140-piece kit, 10 of each length	6.95	5.95	5.59	4.95
19290	350-piece kit, 25 of each length	12.95	10.95	9.95	8.95
20080	350 pieces, refill for P/N 19290	10.95	9.49	8.49	7.49
2213229	0.5" black wire jumper (22AWG) pre-formed	*	.12	.10	.08
2213211	0.5" red wire jumper (22AWG) pre-formed	*	.12	.10	.08
2213202	0.5" yellow wire jumper (22AWG) pre-formed	*	.12	.10	.08
2213190	0.75" black wire jumper (22AWG) pre-formed	*	.15	.13	.11
2213173	1.0" black wire jumper (22AWG) pre-formed	*	.17	.15	.12
2213165	2.0" blue wire jumper (22AWG) pre-formed	*	.19	.17	.14
2234960	2.0" blue wire jumper (28AWG) straight	*	.19	.17	.14



## Reinforced Jumper Wires

★ Web Code: LAS

These jumper wires are exactly what you need to build the circuits you have designed on breadboards. The various lengths of the wire can help make your circuit concise and less cluttered for larger designs.

126342



Part No.	Mfr.	AWG	Length (in.)	Number of Wires per Color	1	10
126342	ValuePro	24	3.94	2 ea. yellow/white/red/black/blue†	\$4.95	\$4.49
126325	ValuePro	24	7.87	2 ea. yellow/white/red/black/blue†	5.95	5.49
421315	ValuePro	24	5.90	4 ea. green/white/red/black/blue†	9.95	8.95
2214555	Velleman	22-26	5.9	1 ea. of 10 assorted colors†	2.95	2.65
2214563	Velleman	22-26	5.9	1 ea. of 10 assorted colors\$	2.95	2.65
2214571	Velleman	22-26	5.9	1 ea. of 10 assorted colorsf	2.39	2.19
2229191	ValuePro	24	4.0, 5.9, 7.9, 9.8	65 total of 7 assorted color†	2.95	2.59
2150467	Dagu	26	1.6, 3.2, 4.8	28 ea. green/red/black/white/orange*	12.95	11.49
2213405	DFRobot	26	4.3, 5.9, 7.9, 9.5	65 total of 7 assorted colors\$	5.95	5.59
2237044	Velleman	22	3.9, 5.9, 7.9, 9.8	65 total of 7 assorted colors\$	4.95	4.49
2213456	DFRobot	26	7.8	6 ea. of red/blue/black/white/green\$	3.95	3.59
2260738	BPS	28	7.9	4 ea. of 10 colors, zipwire ribbon†	4.95	4.49
2260746	BPS	28	7.9	4 ea. of 10 colors, zipwire ribbonf	4.95	4.49
2260754	BPS	28	7.9	4 ea. of 10 colors, zipwire ribbon\$	4.95	4.49
2260762	BPS	28	3.9, 7.9	16 ea. of 10 colors (80)†, (40)\$, (40)f	16.95	15.95

\* Contains 100 male-male cables, 40 female-female cables

† Male to male cables

\$ Male to female

f Female to female



## SMT to DIP Adapter

This adapter makes it easy to prototype with surface mount ICs on your solderless breadboard. Simply solder the IC onto the adapter and the pins will plug directly into your board.

- Each one includes a row of headers for use with breadboards

★ Web Code: HDS

Part No.	Mfr.	Part No.	Pitch	No. of Boards	1	10
2130263		204-0004-01	1.27mm	3 (one 8-pin, one 18-pin, one 28-pin)	\$5.95	\$5.69



JAMECO ValuePro

## Digital Design Lab

Our most popular digital lab!

- 1580 tie points
- Fixed power supply: +5VDC @ 1.0A
- Two 7-segment displays (digit height: 0.3")
- Digital voltmeter • One-year warranty

\* Web Code: LAJ



International  
115/220VAC Switchable

### Solderless Breadboard

- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

- DC supplies equipped with short-circuit protection
- Variable DC power: 0 to ±15V @ 0.3A

- Function Generator (6 ranges)** • Sine/triangle wave output: 0-5Vp-p variable
- Frequency ranges: 0.1Hz-2Hz, 1Hz-20Hz, 10Hz-200Hz, 100Hz-2kHz, 1kHz-20kHz, 10kHz-200kHz
  - Square wave output: 0-15Vp-p

- Universal Counter** • 1Hz-100MHz, with 8-digit 7-segment LED display

**Includes:** Power cord and manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	5
75839	Digital lab	10.6 x 13.3 x 5.0	8.1	\$499.95	\$459.95
1952599	Replacement breadboard	4.5 x 6.75 x 0.37	0.5	29.95	26.95

JAMECO ValuePro

## AC/DC Power Supply

### Ideal for Breadboards on pg 128

With built-in short circuit protection.

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps & power fuses • One-year warranty
- Just plug in & start to use • Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77842, pg 117



International 120/220VAC Switchable

**Output Specifications:**  
+5VDC @ 1A; -5V @ 300mA fixed;  
0 to +15VDC @ 500mA variable;  
0 to -15VDC @ 300mA variable;  
12-6-0-6-12 tapped VAC, 300mA fixed

Part No.	Description	Wt. (lbs.)	Color	Size (W" x D" x H")	1	5
77682	Power supply	5.5	Beige	7.4 x 5.5 x 2.6	\$169.95	\$154.95

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## Deluxe Electronic Kits



2129115 Top



2129115 Bottom



2129123 Top



2129123 Bottom

**2129115:** 219 pieces; fuses, battery holders, batteries, potentiometers, loudspeaker, capacitors, resistors, photoresistors, transistors, switches, LEDs, clips, jumper and hookup wires, breadboard, AC adapter, and deluxe carrying case P/N 2129131

**2129123:** 109 pieces; voltage regulators, relays, diodes, switches, potentiometers, logic chips, DIP sockets, inverters, counters, timers, headers, 3-digit display, numeric keypad, DC power jacks, binding posts, solder tube, heat shrink tubing, printed circuit boards, clips, IC inserter, IC extractor, anti-static wristband, helping-hands, project box, deluxe carrying case P/N 2129131

**2129131:** Clear flip-top lid with 26 built-in compartments, case with 8 interchangeable compartments, snap-lock closure

- Color: black with clear lid
- Size: 15"L x 11.25"W x 3.75"H

\* Web Code: CKS

Part No.	Description	1	5
2129115	219 pcs. deluxe kit	\$89.95	\$80.95
2129123	109 pcs. deluxe kit	99.95	89.95
2129131	Case with 34 compartments	19.95	17.95

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## Component Cabinets



319600



319611

319600:

- Drawer can be divided into 3 sections (clear)
  - Wall mountable cabinet (ABS black)
  - Cabinet size: 14.7"W x 6.0"D x 7.4"H
- Includes:** 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels
- 319601** (drawer): 5.5"L x 2.7"W x 1.5"H  
**319611** (divider): 2.5"W x 1.2"H

Included with every kit on page 26!

- **2213675:** Cabinet size: 17.6"L x 7.0"D x 9.8"H
- Counter-top design (ABS white)

**Includes:**

- 14 clear plastic drawers in 3 sizes:  
(10) 6.4"L x 3.4"W x 1.5"H,  
(3) 8.8"L x 6.4"W x 1.5"H,  
(1) 8.8"L x 6.4"W x 3.3"H
- and 20 adhesive I.D. labels

Part No.	Description	1	10	50
319600	20-drawer cabinet	\$19.95	\$17.95	\$15.95
2213675	14-drawer cabinet	29.95	26.95	23.95
319601	Drawer for cabinet	.59	.49	.39
319611	Drawer divider for cabinet	.*	.19	.15

## Plastic Flip Top Boxes

- Clear plastic box with lid, includes removable dividers

**100256:** 18 compartments

**148902:** 12 compartments

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Part No.	Size (L" x W" x H")	1	10	25
100256	8.4 x 4.5 x 1.4	\$2.95	\$2.59	\$2.29
148902	10.2 x 4.7 x 1.6	5.95	4.95	4.49

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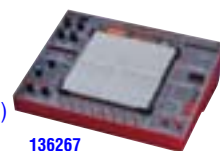
## Digital/Analog Design Labs

### Solderless Breadboard

- 2712 connections; fits AWG #22-30 (0.3-0.8mm)

### DC Power Supplies

- Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA
- Variable DC output: 0 to ±15V @ 500mA (P/N 136267) and 0 to ±15V @ 1A (P/N 1919211)
- Input power: 110/220VAC @ 50-60Hz (switchable)



136267

### Function Generator (6 Ranges)

- Triangle wave output: 0-5Vp-p variable
- Frequency ranges: 0.1Hz-2Hz, 1Hz-20Hz, 10Hz-200Hz, 100Hz-2kHz, 1kHz-20kHz, 10kHz-200kHz
- Sine wave output: 0-5Vp-p variable

- Other Features** • 2.5" dia., 8Ω, 25W speaker • 2 banana sockets, 2 BNC jacks
- 2 pulse switches (2 sets of outputs: A, A̅, B, B̅)
  - 2.5" dia., 8Ω, 25W speaker
  - Two 7-segment LED displays (digit height: 0.3")
  - 2 banana sockets, 2 BNC jacks
  - 136267:** • 8 data switches • 8-bit red LEDs • 100MHz universal counter
  - Includes power cord, manual and UC-03 60-pin header
  - 1919211:** • 16 data switches • 16-bit red LEDs
  - Includes power cord, manual and jumper wires

\* Web Code: LAJ

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	5
136267	Digital/analog lab	12.8 x 9.8 x 3.7	8.5	\$449.95	\$435.95
1919211	Digital/analog lab*	13.0 x 10.5 x 3.5	9.1	474.95	449.95

\* Manufacturer: Sun Equipment Corp.



## USB AVR Programmer

This programmer emulates an AVRISP v2 on a virtual serial port, making it compatible with standard AVR programming software.

- In-system programmer (ISP) • Extremely compact
- Compatible with Windows® XP, Windows® Vista, Windows® 7 and Linux

**Includes:** 6-pin ISP programming cable and USB-A to mini-B cable



Part No.	Description	Size (L" x W")	1	5
2136420	USB AVR programmer	1.35 x 0.6	\$19.95	\$18.95

## Breadboard Power Supply

This power supply is a very simple pre-assembled board that takes a 6-12V input and outputs a selectable 5V or 3.3V regulated voltage. All headers are 0.1" pitch for simple insertion into a breadboard. It can be powered from a 2.1mm DC power jack or from a USB port. No assembly required.

- Output: 3.3V/5V @ 500mA max.
- Input: 6-12V (power jack) or 5V (USB)
- 0.1" pin spacing perfect for breadboards
- On/Off switch • Power status LED

Part No.	Size (L" x W")	1	5
2157853	1.7 x 1.2	\$4.95	\$4.49



## ABS Trolley Case

- Two separate sealable compartments
- Two locks with keys and silver hinges
- Two wheels with telescoping handle
- 6 elastic bands to secure hand tools
- Durable ABS plastic construction
- Size: 17.9" x 13.2" x 7.5"

NEW MARKED IN PINK



Part No.	Description	Price
2174952	ABS trolley case	\$99.95

\* Enclosures and Boxes — Enter Web Code UAL

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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## Metal and Plastic Enclosures

The prototype builder boards on pg 131 are designed to fit into our ABS plastic and aluminum enclosures, metal cabinets and heavy-duty instrument cases. The pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware (P/N 106551, pg 131) and adhesive standoff (P/N 2191592).

**Board description:** Laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

See page 39 for Knobs and page 77 for Hardware

\*Web Code: UAL



\*All boards sold separately, see pg 131; multiple boards shown

## ABS Plastic Enclosures

Lid for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are interior dimensions.

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50	100
18922	H2855	3.1" x 2.0" x 0.9"	\$3.49	\$3.19	\$2.89	\$2.49
18914	H2853	4.9" x 2.5" x 1.5"	3.95	3.59	3.19	2.75
18893	H2851	6.0" x 3.5" x 1.9"	4.95	4.49	3.95	3.49
18906	H2852	7.5" x 4.3" x 2.3"	6.49	5.95	5.39	4.79
2234687	RP1240*	6.5" x 4.9" x 2.9"	17.95	15.95	14.49	12.95

\*Polycarbonate

## ABS Enclosures with Clear Top

Includes screws for mounting boards, rubber gasket for a tight seal on your equipment & drilled holes for mounting.

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50	100
141832	203C1	4.9" x 3.4" x 2.4"	\$9.95	\$8.95	\$7.95	\$6.95
141841	203D1	6.5" x 3.4" x 2.2"	9.95	8.95	7.95	6.95
141859	203F1	7.3" x 5.7" x 3.0"	14.95	13.95	12.95	11.95

## ABS Heavy-Duty Instrument Cases

P/N 18877 includes ventilation and speaker sound slots.

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50	100
18869	H2505	7.9" x 6.3" x 2.5"	\$7.95	\$6.95	\$6.25	\$5.59
18877	H2507	10.0" x 7.5" x 3.1"	8.95	7.95	6.95	6.25

## ABS Plastic Lip Top Enclosure

PCB standoffs molded into the case with a lip top for a precision fit. Painted black with a satin texture finish and protection against dust and splashing water. Assembly screws and lid included.

Part No.	Mfr. Part No.	Size (L x W x H)	Color	1	10	50
2138206	1551GBK	2.0" x 1.4" x 0.8"	Black	\$1.95	\$1.75	\$1.49

SERPAC

## Specialty Enclosures



### C Series — with Pinch-Fit for PCBs

- Simple 2-piece design
- 2-insert areas for customized I-plates

Please Note: Images used are representative. Color and shapes may vary by model.

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	25
675331	C-4-BK	Black	2.13 x 1.38 x 0.58	\$2.95	\$2.59	\$2.29

### H Series — Four Piece Design

- Holds 4-AA batteries (contactors included)
- Circuit board mounting bosses
- Assembly with 6 screws RoHS compliant
- ABS plastic black

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	25
2227778	H754AA	Black	7.20 x 3.65 x 1.26	\$8.95	\$7.95	\$6.95

### S Series — Two-piece Standard Enclosures

- 2-piece design
- 2-insert areas for customized I-plates
- With screws

Part No.	Mfr. Part No.	Color	Batt. Holder	Size (L" x W" x H")	1	10	25
675462	111-BK	Black	None	3.61 x 2.27 x 1.51	\$4.95	\$4.39	\$3.95
2202108	341BLK*	Black	None	4.38 x 3.25 x 1.51	3.49	2.95	2.59
675489	131-BK	Black	None	4.38 x 3.25 x 1.51	6.95	5.95	5.39
675542	173-BK	Black	None	6.88 x 4.88 x 2.51	10.95	9.95	8.95
675551	193-BK	Black	None	9.50 x 6.34 x 2.51	14.95	12.95	10.95

\*Drilled, ValuePro

## Metal Enclosures

- Mounting screws and rubber feet included
- Glossy black textured steel top cover and ivory aluminum base

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50
208901	B2741A	4.0" x 3.3" x 2.2"	\$6.95	\$6.25	\$5.59
208911	CMC11922	5.9" x 5.3" x 3.0"	9.95	8.95	7.95
209350	B2746A	6.3" x 7.8" x 2.5"	9.95	8.95	7.95
208929	B2744A	7.3" x 6.3" x 2.8"	10.95	9.95	8.95
209358	SY0207	7.5" x 9.8" x 3.2"	15.95	14.49	12.95

## Die-Cast Aluminum Enclosures

Made from aluminum, an excellent heat sink, these cases are great for high temp circuits (up to 600°C). Includes screws.

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50	100
11957	B5002	3.9" x 2.0" x 1.0"	\$6.95	\$6.25	\$5.59	\$4.95
11965	03-125B	4.7" x 2.6" x 1.4"	9.95	8.95	7.95	6.95
2191867	BOX3-1455N-BK	6.3" x 4.6" x 2.1"	23.95	22.95	21.95	20.95
11973	03-125C	7.5" x 4.3" x 2.4"	19.95	18.95	17.95	16.95

## Aluminum Enclosures

The enclosure comes in two pieces that slide together.

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50	100
11870	H2300	4.0" x 2.0" x 2.8"	\$5.95	\$5.49	\$4.95	\$4.49
11886	H2320	5.0" x 4.0" x 3.0"	6.95	6.29	5.59	5.49

## Rugged Diecast Aluminum Alloy Enclosures

Protects from dust and splashing water, while also providing EMI/RFI shielding. Designed to meet IP54 rating. Unpainted with a vibra finish. Assembly screws included.

Part No.	Mfr. Part No.	Size (L x W x H)	Cover	1	10	50
2138169	1550A	3.5" x 1.4" x 1.2"	Lid top	\$5.95	\$4.95	\$4.25
2138290	1590B	4.4" x 2.3" x 1.1"	Lip top	7.25	6.45	5.39
2138302	1590BB	4.7" x 3.7" x 1.2"	Lip top	8.95	8.49	7.95



## Black Plastic Mounting Enclosure w/ PCB Grooves



- Rear panels must be ordered separately
- Size: 5.65"W x 4.82"D x 2.83"H
- Material: noryl rosin

2228025 includes:

- Enclosure with PCB grooves (NGS7411)
- Front panel, plain (NGS7411P)
- Front panel frame (NGS74PF)
- Screw clamps NGS-NK 2 3/4" (2)
- Self tapping screws (8)

Part No.	Description	1	10
2228025	Enclosure with PCB grooves and front panel	\$6.95	\$6.25
2228050	Rear panel, unpunched ABS, plain, black	3.95	3.59
2228041	Screw clamps for screw fitting enclosure (2) NGS-NK	2.95	2.59
263207	P.C. protoboard - 674 plated thru hole pads	7.95	6.95



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# Prototyping PC Boards & Terminals



## General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- PCB material epoxy glass
- Plated through pads are double-sided

See PCB enclosures on pg 130, and mounting hardware (recommend P/N 106551) below

★ Web Code: PBH



21435



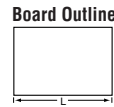
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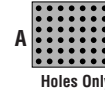
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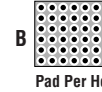
52943



Board Outline



A Holes Only



B Pad Per Hole



C Power/Ground Perimeter Bus with Pad Per Hole



D 3 Hole Solder Pad and Bus

Part No.	Product No.	Size (W" x L")	Fits Enclosure(s) (see page 130)	Circuit Pattern	Hole Pads	# Holes x Dia.†	Power/Ground Buses	Connector I/O or Edge	# Mounting Holes x Dia.	Wt. (lbs.)	Pricing			
											1	10	50	100
105102	G/S(PCB-365)-R	1.50 x 3.50	11957	C	Single-sided	365 x .038"	4	None	2 x .140"	.02	\$4.95	\$4.49	\$3.95	\$3.59
2229335	245-0001	1.80 x 2.80	—	C	Single-sided	417 x .035"	2	None	4 x .120"	.02	4.49	3.95	3.59	3.19
105100	G/S(PCB228)-R	1.60 x 2.70	18922	B	Single-sided	288 x .035"	None	None	2 x .115"	.02	4.95	4.49	3.95	3.59
105129	2853PCB-R	2.00 x 4.40	18914, 11965	C	Single-sided	669 x .038"	4	None	4 x .140"	.03	6.95	6.25	5.59	4.95
2213421	FIT0099†	2.28 x 3.07	—	B	Single-sided	572 x .038"	None	None	4 x .118"	.03	1.95	1.75	1.49	1.25
105111	PCB-102-R	2.40 x 3.40	11870	C	Single-sided	637 x .038"	4	None	2 x .140"	.03	4.49	3.95	3.59	3.19
263207	PCB-463-R	2.40 x 4.10	—	B	Plated through	640 x .031"	None	None	4 x .120"	.05	7.95	6.95	6.25	5.59
263215	PCB-858-R	2.50 x 4.25	18893	D	Plated through	640 x .042"	None	D-sub 25/USB/RJ45	4 x .120"	.05	6.95	5.95	5.49	4.95
105153	2851PCB-R	3.10 x 5.50	18893	C	Single-sided	1450 x .035"	7	None	4 x .140"	.07	5.49	4.95	4.49	3.95
263223	PCB-69-R	3.30 x 3.70	—	B	Single-sided	900 x .042"	None	None	4 x .120"	.05	4.95	4.49	3.95	3.59
105137	PCB-1266-R	3.30 x 4.50	11886	C	Single-sided	1266 x .035"	4	None	4 x .140"	.06	5.95	5.49	4.95	4.49
105162	2852PCB-R	3.60 x 7.00	18906, 11973	B	Single-sided	2225 x .035"	4	None	4 x .140"	.10	9.95	8.95	7.95	6.95
2131186	ECS3-H2	3.90 x 6.30	—	D	Single-sided	784 x .041"	2	DIN41617/41612	4 x .120"	.12	5.69	5.29	5.19	4.89
206587	PCB-586-R	4.30 x 6.80	209350	C	Single-sided	2550 x .042"	5	None	4 x .140"	.07	8.95	7.95	6.95	6.25
21435	JE401-R	4.50 x 6.50	18869	B/D	Single-sided	2360 x .042"	2	None	None	.12	12.95	11.95	10.95	9.95
206579	PCB-578-R	4.60 x 4.30	208911	C	Single-sided	1684 x .042"	5	None	4 x .140"	.07	5.95	5.49	4.95	4.49
105180	PCB-135-R	5.00 x 6.50	18869	C	Single-sided	2829 x .035"	7	None	8 x .120"	.13	8.95	7.95	6.95	6.25
21478	JE407-R	5.00 x 13.25	—	B	Double-sided	6063 x .038"	None	None	8 x .120"	.28	29.95	26.95	23.95	21.95
206594	PCB-594	5.50 x 8.00	209358	C	Single-sided	3906 x .042"	5	None	4 x .140"	1.0	10.95	9.95	8.95	7.95
105187	2507PCB	6.10 x 8.80	18877	C	Single-sided	4771 x .035"	7	None	8 x .140"	.21	13.95	12.49	10.95	9.95



## Vector Prototyping Boards

43140	64P44XXX	4.50 x 6.50	18869	A	Drilled only	2860 x .042"	None	None	None	.09	\$8.75	\$7.69	\$6.59	\$6.39
52943	84P44WE	4.50 x 8.50	18877	A	Drilled only	3740 x .042"	None	None	None	.15	12.49	11.49	10.49	9.95
37612	169P44XXX#	4.50 x 17.0	—	A	Drilled only	7524 x .042"	None	None	None	.25	15.95	14.95	13.95	13.49
37621	169P84WE	8.50 x 17.0	—	A	Drilled only	14,448 x .042"	None	None	None	.53	29.95	26.75	22.95	22.29
106551	20 pieces; PC board mounting hardware (4 spacers, 8 screws and 8 washers) used with all above boards										2.95	2.59	2.29	1.95

Manufacturer: 1 DFRobot 2 Velleman # PCB material: phenolic † All 0.042" Diameter hole boards use terminals P/Ns 34147, 34155 and 34163 (below)



## .042" Diameter Copper Alloy Wire Wrap and Push-In Terminals

★ Web Code: XCE

34147: Push-In Micro-Klip Terminals

34155: Miniwrap Wiring Terminals • Shoulder: .045"

• Two-prong with square tail for wire wrapping

34163: Klipwrap Wiring Terminals

• Three-prong with square tail for wire wrapping



34147 34155 34163

Part No.	Mfr. Part No.	Height Above .062" Board	Length Below .062" Board	Post Size	Overall Length	100 pc. units	
						1	10
34147	T421-1/C	.200	.097	.032" x .045"	.36"	\$10.95	\$9.95
34155	T44/C	.065	.530	.025" Sq.	.69"	9.95	8.95
34163	T49/C	.200	.530	.025" Sq.	.83"	14.95	13.49



## PCB Adhesive Standoff

The rectangular base is offset to allow the base to be underneath the board when the mounting hole is close to PCB edge. The offset base provides large sticking surface while permitting the PCB to be mounted in tight spaces or close to walls.

- Low profile, offset base
- 3M adhesive tape backing
- 0.125" diameter PCB hole
- Integral clip locks PCBs in place
- Material: nylon 66 (UL)
- Flame class: 94V-2
- Size: 0.6"L x 0.8"W x 0.12"D



★ Web Code: PSF

Part No.	Product No.	Description	1	10	50
2191592	SA120X8	8-pack adhesive standoff for PCBs	\$2.75	\$2.49	\$2.29



## Solderable PC Protoboards

- High-quality FR4 glass epoxy PCBs for long life
- Anti-tarnish protective coating for easy soldering

★ Web Code: PBH

2127267

Part No.	Product No.	Size (L" x W" x D")	Points	Pricing		
				1	10	50
2125042	SB300	3.0 x 1.2 x 0.06	300	\$3.95	\$3.49	\$3.19
2125051	SB400	3.0 x 1.9 x 0.06	400	4.95	4.49	3.95
2191402	SB404	3.75 x 1.85 x 0.06	540	4.95	4.45	3.95
2191411	SB830	7.25 x 1.85 x 0.06	1258	6.49	5.95	5.39
2125034	BR1	7.0 x 1.85 x 0.06	830	6.49	5.79	5.29
2127267	ST3U	6.3 x 3.9 x 0.06	2356	9.95	8.95	7.95

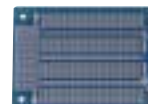


## PT Series Prototyping Boards

★ Web Code: PBH

• Features power buses that connect to a power jack (recommended P/Ns 101178 and 101187, pg 98)

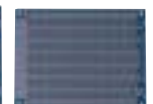
Part No.	Cross Ref.	Size (L" x W")	Hole Pads	# Holes x Dia.	# Mntg Holes x Dia.	1	10	50
645677	PB-456	3.5 x 2.5	Double-sided	456 x .036"	4.0 x .140"	\$9.95	\$8.95	\$7.95
262511	PB-1135	5.0 x 3.7	Double-sided	1135 x .036"	4.0 x .140"	10.95	9.95	8.95
262537	PB-1931	6.0 x 4.9	Double-sided	1931 x .036"	4.0 x .140"	11.95	10.95	9.95



645677



262511



262537

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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## Pre-Sensitized Circuit Boards & Chemicals

### Circuit Boards

- Pre-coated circuit board
- 1/16" thick

Part No.	Mfr. Part No.	Description	Size (W" x L")	1	10	25
2097117	14-024	Single sided	2.0 x 4.0	\$4.49	\$3.95	\$2.95
156751	14-034	Single sided	3.0 x 4.0	5.39	4.89	4.35
2161326	14-046	Single sided	4.0 x 6.0	7.95	7.19	6.59
2161334	14-066	Single sided	6.0 x 6.0	8.95	7.95	7.19
156742	14-234	Double sided	3.0 x 4.0	6.95	6.25	5.59
2161342	14-266	Double sided	6.0 x 6.0	12.95	11.49	9.95

### Copy Sheets and Chemicals

2097070	12-500	Clear copy sheets (8.5" x 11.5") 5 pk.	\$4.95	\$4.49	\$3.95
70201	ER3*	Dry concentrated etchant (makes 1 pint)	6.25	5.65	4.95
156734	12-404*	4 oz. positive developer	21.49	19.35	17.39
2097088	12-800	Tin plating copper kit†	16.95	15.25	13.69

\* Shipped via ground – available in continental U.S. only  
† Includes ER-18 tinnit solution, 8"x6"x2" pan, 16 oz. bottle

## Printed Circuit Board Adapter

- 0.318" setback right angle DB15 high density
- Low profile male shrouded header
- Straight and right angle male headers (dual row)
- Straight and right angle IDC socket
- Ribbon cable

Part No.	Description	1	5	25
2231700	DB15 high density to 16-pin IDC	\$9.95	\$8.95	\$7.95

## Prototype Boards

### Experimenter's Phenolic Prototype Boards

<b>616673:</b> Single land pattern, 0.15" spacing			<b>616649</b>	<b>616673</b>	
<b>616649:</b> Copper plated w/ 94 five-point terminals & two 40-point bus strips, 0.1 spacing					
<b>Part No.</b>	<b>Mfr. Part No.</b>	<b>Size (W" x L" x Thick")</b>	<b>1</b>	<b>10</b>	<b>25</b>
<b>616673</b>	22-512	3.38 x 6.75 x 1/16 .....	<b>\$5.19</b>	<b>\$4.79</b>	<b>\$4.49</b>
<b>616649</b>	22-508	2.0 x 6.0 x 1/16 .....	<b>11.89</b>	<b>10.69</b>	<b>9.95</b>

### Perforated Bare Phenolic Prototype Boards

Unexcelled for prototypes, breadboards, hobby or science projects. Bare phenolic board with no copper clad.

- 0.100" spacing
- 1/16" thick

Part No.	Mfr. Part No.	Size (W" x L")	Hole Dia.	1	10	25
616690	22-516	4.50 x 6.0	.042	\$4.19	\$3.79	\$3.59

## Through-Hole Prototyping Boards

Fig. 1	Fig. 2	Fig. 3	Fig. 4
2191461	2191488	2191470	2191496
2191429	2191445	2191453	

- High-quality FR4 glass-epoxy circuit board
- 0.037" drilled holes on 0.1" (2.54mm) centers
- 1 oz./ft<sup>2</sup> copper with anti-tarnish coating for easy soldering

Part No.	Mfr. Part No.	Description	Fig.	Size (W" x L")	1	10
2191461	PR2H1	Single-sided	1	1.97 x 3.15	\$3.15	\$2.89
2191488	ST1.	Single-sided	2	1.97 x 3.15	3.15	2.89
2191470	PR2H2	Single-sided	1	3.15 x 3.94	5.95	5.39
2191496	ST2.	Single-sided	2	3.15 x 3.94	5.95	5.25
2191429	SB1660	Single-sided	3	3.65 x 7.25	11.95	10.95
2191445	PAD1	Double-sided	4	1.97 x 3.15	4.95	4.49
2191453	PAD2	Double-sided	4	3.15 x 3.94	5.95	5.49

## TopMax II High Speed Universal Programmer

- USB interface
- 48-pin ZIF socket
- Input voltage: 5V, 3.3V, 2.7V, 1.8V
- No. of devices supported: 15,000+
- Supports: NAND Flash Memory, Standard Flash Memory, EPROM, EEPROM, Serial PROM, GAL, FPGA, MCU

Part No.	Mfr. Part No.	Price
2110158	TOPMAXII	\$699.95

## Prototyping Developer Kit

The Jameco prototyping developer kit includes everything you need to get started with prototyping your own PCB.

- 2 pre-coated circuit boards, 3" x 4" x 1/16"
- (P/N 156751, left)
- 4 oz. positive developer concentrate (P/N 156734, left)
- 32 oz. etching solution (P/N 616438, pg 127)

Part No.	Description	1	5
2113244	Prototyping developer kit*	\$49.95	\$44.95

\* Shipped via ground – available in continental U.S. only

## Bare Copper Circuit Boards – Single Sided

1 oz. copper on base of either fiberglass or reinforced epoxy board.

Part No.	Mfr. Part No.	Size (W" x L" x Thick")	1	10	25
616471	22-250	3" x 5" x 1/16"	\$2.75	\$2.49	\$2.25
616489	22-260	4" x 6" x 1/16"	2.69	2.39	2.29
616497	22-261	6" x 6" x 1/16"	3.19	2.99	2.89
616500	22-263	6" x 9" x 1/16"	4.29	3.89	3.65
616518	22-264	8" x 10" x 1/16"	7.59	6.79	6.49
616534	22-268	11" x 14" x 1/16"	13.79	12.39	11.79

## Copper-Plated Blank Circuit Boards

Single and double-sided boards are copper plated.

- Copper thickness: 35µm
- Total copper weight: 1 oz per side
- 1.6mm (1/16") thick
- PCB material: phenolic

Part No.	Cross Ref. No.	Description	Fig.	Size (L" x W")	1	10	25
169279	PCBS3X6	Single-sided	3	2.9 x 5.9	\$3.95	\$3.59	\$3.29
169288	PCBS6X6	Single-sided	2	5.9 x 5.9	4.95	4.49	3.95
169296	PCBS12X12	Single-sided	1	11.8 x 11.8	14.95	13.49	11.95
169317	PCBD6X6	Double-sided	2	5.9 x 5.9	6.95	6.39	5.59
169325	PCBD12X12	Double-sided	1	11.8 x 11.8	17.95	15.95	14.49

## Positive Pre-Sensitized Circuit Boards

1 oz. copper (.0014") on an epoxy glass FR-4 board, UL94V-0 rated. The peel-off coating protects the board while handling or cutting prior to exposure. Use with developer mixed 1:9 with water.

Part No.	Mfr. Part No.	Description	Size	1	10	25
616251	21-334	Single-sided	4" x 6"	\$4.39	\$3.99	\$3.69
616260	21-336	Single-sided	6" x 6"	6.39	5.79	5.49
616307	21-353	Double-sided	6" x 9"	11.39	10.29	9.49

## 1660 Point Breadboard & PCB Kit

### SB1660 Double PC Breadboard

- 1660 contact points, 2528 pads total, 0.042" holes on 0.1" centers
- 12 power rails can be used for power or signals
- Single-sided high quality FR4 glass epoxy circuit board
- 1 oz./ft. copper with anti-tarnish for easy soldering
- Bonus two-hole pads along center lines for DIL headers to be used
- Pb free and RoHS compliant
- Size: 7.25"L x 3.65"W x 1/16"H

### BB1660 Breadboard

- 1660 contact points, 0.1" centers
- 8 power rails for power or signals
- White ABS plastic with color printed legend
- Adhesive tape backing to a surface or metal plate (2 included)
- Pb free and RoHS compliant
- Rating: 36 volts, 2 amps
- Size: 6.5"L x 4.4"W x 0.3"H

Part No.	Mfr. Part No.	Description	1	5
2233852	Kit-BB1660 +SB1660	Breadboard and PCB kit	\$27.95	\$24.95

\* Programmers Available Online — Enter Web Code SUP

# Rack Mount Enclosures, Surge Protectors & USB Products

JAMECO  
ValuePro

## 19" Rack Mount Enclosures

- Ventilation holes all side
- Finish: Flat black
- Front and back panels are steel with aluminum, pre-punched face plates
- 0.12" thick black front panel
- Need to assemble
- Top, bottom and sides are durable 0.035" steel
- All enclosures have handles

Includes: Mounting screws

Part No.	RU	Dimensions (In.)			Wt. (lbs.)	Pricing	
		H1	H2	D		1	5
132840	2U	3.46	2.88	11.75	9.1	\$59.95	\$53.95
2203590†	2U	3.50	3.50	15.50	9.1	29.95	26.95
132848	3U	5.22	4.75	11.75	10.6	69.95	62.95

† Assembled with 2 fans

\* Rack Mount Products — Enter Web Code GAT

## Wireless Keyboard with Touchpad

Connect with PCs, tablets, Android TV, Google TV boxes, XBOX360 & PS3 game consoles, Raspberry Pi and more.

- 92 keys, audio and web buttons
- 2.4-2.48 GHz, ≤45 ft. range
- Slick, compact design
- Mini wireless QWERTY keyboard with touchpad

Includes: Li-ion battery, charging cable and USB receiver

Part No.	Mfr. Part No.	1	5
2240112	DFR0330	\$24.95	\$22.49

## PS-2/USB PC Trackball

- 51mm opto-mech ball
- 3 large buttons
- Windows® 98SE/2000/ME/XP/Vista

Part No.	Mfr. Part No.	DPI	Color	Price
305082	Libra-90	6400	White	\$29.95

JAMECO  
ValuePro

## Computer Switchbox

- 2-port switchbox
- DB25 female (2 PCs to 1 printer)
- Size: 6.0"L x 5.8"W x 2.3"H
- Weight: 1.4 lbs.

Part No.	Cross Ref. No.	1	10
20095	40D3-17602	\$17.95	\$15.95

JAMECO  
ValuePro

## Panel Bracket Cable Assembly

- Standard back panel bracket
- Length: 12"
- Ribbon cable with header connector
- One serial port

Part No.	Description	1	10	100
355688	DB9M to 10-pin header F	\$1.49	\$1.35	\$1.19

\* Computer Brackets — Enter Web Code RAX

JAMECO  
ValuePro

## USB-A Cable with Bracket

- Add additional USB ports to your PC
- Dual USB-A female ports
- Supports data transfer rates of 12Mbps
- 8'L cable

Part No.	Description	1	10	25
144813	(2) 1x5-pin connectors	\$4.95	\$4.49	\$3.95

## Analog DIN-Rail Timer

- DIN rail/ back panel mount (17.5mm)
- 10 time ranges • 13 timing functions
- Output contact: SPDT (1C/O)
- Contact rating: 5A (NO), 3A @ 250VAC (NC)
- Faceplate (IP50), housing (IP40), terminals (IP20)

Part No.	Size	1	5	25
2193862	17.5mm	\$29.95	\$26.95	\$24.95

\* DIN Mounting Rails Accessories — Web Code MBM

## APC 8-Outlet Surge Protector

- Protection rating: 1120 joules
- 8 outlets • RoHS
- UL 1363, UL 1449
- Phone/Fax/Modem protection
- Building wiring fault (red LED)
- On/Off power button (green LED)
- Electrical rating: 120VAC, 15A 50/60Hz
- Reset button - 15A circuit breaker for overloads
- Voltage protection: L-N 400V, L-G 500V, N-G 400V
- Voltage/current spike: 6kV @ 200A, 100kHz max.
- Includes 6 foot RJ9 telephone cord

Part No.	Mfr. Part No.	1	10	100
2233975	PR08T2	\$19.95	\$17.95	\$16.49

## SPI 300-Watt AT Power Supply

- +12V @ 12A, -12V @ 0.5A
- +5V @ 30A, -5V @ 0.5A
- 2x floppy connector
- 4x peripheral (4P Molex)
- Input: 100/220VAC selectable
- 2x 6P power connector ("P8" & "P9")
- Quick connect terminals for main switch
- AC cord not included, recommend P/N 38050

Part No.	Mfr. Part No.	1	5
2208219	SPI-300G-B (no plug)	\$64.95	\$59.95

## Pixy Cam Vision Sensor – CMUcam5

- Track hundreds of objects simultaneously
- Color and shape recognition
- Arduino, Pi, BeagleBone compatible
- Use with pan/tilt assembly (sold separately, see below)

Part No.	Mfr. Part No.	Price
2239381	1/4" 1280x800, 264k RAM, M12 lens	\$69.95
2239390	Pan & tilt kit assembly for pixy, 2x servo	39.95

BAGU

## Mini Pan & Tilt Kit

- For horizontal surface mount
- Aluminum multifunction bracket
- 15kg/cm @ 4.8V
- Rotation: 0-180°

Part No.	Mfr. Part No.	1	5
2157870	RS002B	\$15.95	\$13.95

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ValuePro

## 6-Outlet Surge Protector

- 4' cord
- Heavy-duty power cord (14AWG x 3)
- Size: 9.5"L x 1.7"W x 1.4"H
- Clamping voltage: 400V
- Max. spike current: 4500A, 150 joules
- Max. surge voltage: 6500V
- RESET/OFF switch with built-in 15A circuit breaker

Part No.	Cross Ref. No.	1	10	25
216485	51W1-10206	\$9.95	\$8.95	\$7.95

## 6-Outlet Power Strips

- 10 ft. 14/3 AWG power cord
- 6 grounded outlets
- Combination circuit
- Breaker ON/OFF switch
- 125V/15A/1875W

2258460/2132200: 6 ft. cord

2258697: 10 ft. cord

Part No.	Mfr. Part No.	1	10	25
2258460	PS08-12-WHITE *	\$4.95	\$4.49	\$3.95
2258697	PS08-12-BEIGE	6.95	6.25	5.59
2132200	ALG242 **	2.95	2.59	2.39

\* Protective socket covers plugs into IISAC wall plug \*\* Wall mount

\* Surge Protectors — Enter Web Code CAC

JAMECO  
ValuePro

## USB 2.0 4-Port Hub

Add multiple high performance USB 2.0 devices to your computer or laptop. Unique design allows for easy storage and use.

- Stylish compact size and light weight
- USB 2.0 up to 480 Mbps
- Plug-and-play, bus powered
- 1 upstream, 4 downstream ports

Part No.	Cross Ref. No.	1	5
2184085	HU2Z40	\$9.95	\$8.95

JAMECO  
ValuePro

## Waterproof USB Video Borescope

Allows for easy surveying of hard-to-reach places with 4 adjustable LEDs on the top on the camera.

- Flexible 16' cord
- 9.8mm camera
- Webcam and photo snap function
- Works with Windows® XP, 7, Vista and Mac iOS

Part No.	Cross Ref. No.	1	5
2177707	INSPECTOR-T1	\$34.95	\$31.95

Computer Cables on page 134

## DIN-RAIL POWER SUPPLIES

- Universal AC input/full range
- Use TS-35/7.5 or 15 rails
- Ideal for industrial applications

Part No.	Mfr. Part No.	Output	Power	1	10
1943385	MDR-20-24	24V/1A	24W	\$12.80	\$10.75
192681	DR-4524	24V/2A	48W	19.10	15.95
1943465	MDR-60-24	24V/2.5A	60W	18.40	15.25
212266	DR-120-24	24V/5A	120W	38.70	31.95

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)



# Computer Cables & Smartphone Chargers

Due to extraordinary copper market price fluctuations, cable & wire prices are subject to change.

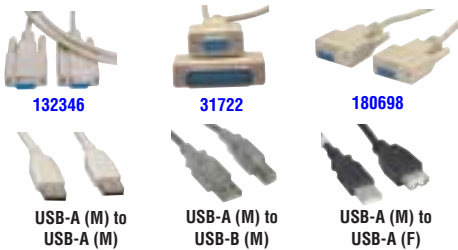
3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS SPECIAL BUY

JAMECO ValuePro

## Computer Cables and Adapters

NEW MARKED IN PINK

\*Web Code: CCS



### Extension Cables

- All lines connected straight through

#### Male to Female

Part No.	Description	Lgth (ft.)	Color	1	10	100
199639	DB9*	6	Black	\$3.95	\$3.59	\$3.25
25701	DB9*	6	Beige	3.69	3.39	2.95
148516	DB9*	10	Beige	5.95	5.59	4.79
181359	DB15	6	Gray	5.95	5.39	4.75
175291	DB25*	3	Black	3.95	3.59	3.29
67257	DB25*	6	Gray	4.95	4.49	3.95
177279	DB25*	15	Gray	6.95	6.25	5.59
2236535	DB25*	25	Gray	7.95	6.95	5.95
181295	DB37	6	Gray	6.95	6.25	5.59

#### Male to Male

181666	DB9	10	Beige	\$4.95	\$4.49	\$3.95
2155188	HDB15*	6	Black	1.95	1.75	1.49
148523	HDB15	10	Beige	5.95	5.35	4.79
174001	DB25*	3	Black	3.95	3.59	3.29
65788	DB25*	6	Gray	5.95	5.39	4.75

\*with thumbscrews

#### Serial Cables w/ Thumbscrews

132346	DB9 F to F	6	Beige	\$3.95	\$3.59	\$3.29
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#### AT F-M Adapter Serial Cables

31722	DB9 F to DB25 M	6	Beige	\$3.95	\$3.59	\$3.29
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#### Serial Null Modem Cables

- Gray • Pin-outs in ( )

Part No.	Description	Length (ft.)	1	10	100
181404	DB9 F to F (1 & 6-4; 2-3; 3-2; 4-6 & 1; 5-5; 7-8; 8-7)	6	\$3.95	\$3.59	\$3.29
180698	DB9 F to F (1 & 6-4; 2-3; 3-2; 4-6 & 1; 5-5; 7-8; 8-7)	10	4.95	4.49	3.95

#### Disk Drive Cables

32686	40-pin (IDE)	1.5	\$1.95	\$1.75	\$1.49
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#### Ribbon Cable Assemblies

12408	DB25 M to F (28 AWG)	4	\$6.95	\$6.25	\$5.59
208582	DB9 M to F (28 AWG)	6	4.95	3.95	3.59

#### 6-Pin Mini DIN PS/2 & AT Cables

Part No.	Description	Lgth (ft.)	Color	1	10	100
112628	Male to male	10	Beige	\$4.95	\$4.49	\$3.95
28549	Male to female	6	Beige	3.95	3.59	3.29

#### IEEE 488

73155	24-pin GPIB	3.3	Gray	\$24.95	\$22.49	\$19.95
115782	24-pin GPIB	6.6	Gray	29.95	26.95	23.95

\*HDMI Cables & Adapters — Enter Web Code DEM

\*Ethernet & Bidirectional Converters — Web Code KEM

Audio Cables & Connectors  
on pages 46-47

### DIN Male Printer & Keyboard Cables for Mac®

Part No.	Description	Lgth (ft.)	Color	1	10	25
10604	8-pin	6	Gray	\$3.95	\$3.49	\$2.95
130025	8-pin	10	Gray	4.49	3.95	3.49

### USB-A to DB9 Male Serial Cable/Adapters

387954	w/ jackscrews	2	Gray	\$16.95	\$14.95	\$13.49
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### USB Cables 2.0 & 3.0

\*Web Code: NAV

326474	A M to M (2.0)	3	Beige	\$1.95	\$1.75	\$1.49
2150985	A M to M (2.0)	6	Blue	.99	.89	.75
222033	A M to M (2.0)	6	Black	2.95	2.59	1.95
2234257	A M to (2) A F (2.0)	1	Black	7.95	6.95	6.25
326482	A M to F (2.0)	3	Beige	1.75	1.59	1.39
222068	A M to F (2.0)	6	Black	1.95	1.75	1.49
222076	A M to F (2.0)	10	Black	2.95	2.59	2.29
222084	A M to F (2.0)	15	Black	3.25	2.95	2.59
229711	A M to B M (2.0)	3	Beige	1.95	1.75	1.59
222608	A M to B M (2.0)	3	Black	1.75	1.49	1.25
229730	A M to B M (2.0)	6	Beige	2.95	2.49	1.95
2227874	A M to B M (2.0)	6	White	1.75	1.47	1.25
222010	A M to B M (2.0)	6	Black	2.95	2.49	1.95
229594	A M to B M (2.0)	6	Clear	2.95	2.49	1.95
229738	A M to B M (2.0)	10	Beige	2.95	2.59	2.29
222018	A M to B M (2.0)	10	Black	2.95	2.59	2.25
2230862	A M to B M (2.0)	14	Beige	2.75	2.59	2.25
222026	A M to B M (2.0)	15	Black	3.49	2.95	2.49
2258478	A M to B M (3.0)	3	Black	1.75	1.59	1.35
2228877	A M to 5-pin mini B	3	Black	2.49	2.25	1.95
673694	A M to 5-pin mini B	6	Black	2.95	2.59	2.29
2230512	A F to micro-B (2.0)	6"	Black	2.75	2.49	2.25
2135064	A M to micro-B (2.0)	3	Black	2.49	2.25	1.95
2196086	A M to micro-B (2.0)	3.2	White	1.95	1.75	1.49
2223945	A M to micro-B (2.0)	5	Black	4.95	4.49	3.95

\*RFI filter A = USB-A; B = USB-B; M = male; F = female

### USBtinyISP AVR Programmer

The USBtinyISP is a low-cost, simple solder kit, and has both 6 and 10-pin standard ISP cables. Works with AVRdude and AVRStudio-compatible & tested under Windows® XP, Linux & MacOS X. It does not do JTAG or high voltage programming.

- Max clock rate: 400kHz
- Read/write speed: 2kb/s, 1kb/s
- 2 status LEDs: "USB/Power Good" and "Busy"
- I/O buffering allows programming of 2V-6V targets
- Powered via 5V USB bus @ <100mA

Includes: 6 & 10-pin ISP cable and kit (PCB, enclosure, MCU & components)

Requires: USB-A to USB-B cable (P/N 222608, not included, see above)

Part No.	Mfr. Part No.	1	5
2136788	46	\$24.95	\$22.95

Hook-Up Wire on page 41

## Chargers and Accessories for Android and Apple Products

NEW MARKED IN PINK



Part No.	Description	Price
2151056	iPhone4 USB-A to 30-pin cable, 3' *	\$3.95
2196078	iPhone4 30-pin to 8-pin lighting adapter*	2.95
2158320	Single port USB cigarette car adapter, 5V @ 1A, black*	3.95
2228391	Dual Port USB cigarette car adapter, 5V @ 2A/5VDC @ 1A, white*	5.95
2244359	Dual port USB AC charger, 5V @ 2.1A, white*	6.95
2227786	Dual port USB AC charger, 5V @ 2A, black*	4.95
2259420	iPhone 5/6/7 AC charger with 3' USB-A to 8-pin lighting cable*	14.95
2135064	USB cable, USB male to micro-B, 3' #	2.49
2196060	iPhone 5/6/7 adapter, USB micro-B 8-pin lighting*	2.95
2228519	iPhone 5/6/7 USB MFi lighting cable, 3' white*	6.95
2232315	iPhone 5/6/7 USB MFi lighting cable, 6' white*	7.95
2229693	Viper earbuds with mic*	4.95
2228527	Power bank, 4000mAh, dual output: 2A/1A @ 5V, 12" cable*	19.95

\*Apple #Android

## GETTING STARTED WITH ARDUINO BOOK, 3RD EDITION

An introduction for the popular, open-source prototyping platform. Learn about what Arduino is and how it works; all while teaching yourself how to code. By the end, you'll be thinking about what kind of inputs you can read to control some other output.



Part No.	ISBN	Price
2222053	978-1-4493-6333-8	\$14.95

## CAR ADAPTER SOCKET SPLITTER

Turn a single cigarette lighter socket in your car or truck into three with this convenient adapter.

- 3 food cable
- 3 output sockets
- Mounting hardware included.



Part No.	Mfr. Part No.	Price
2231419	TV/003/5-3	\$8.95





**DIY Spider Robot**

2190717



**DC Voltage Monitor**

181833



**USB Arm Controller**

2111960



**Mini Robot**

2150619



**Running Micro Bug**

200328



**Crawling Micro Bug**

200336



**4-Channel Relay Card**

239476



**Line Tracking Robot**

386708



**Multi-Function Relay Switch**

2130600



**RFID Proximity Card**

2123936



**Titan Tank**

2128374



**Terrain Tracked Robot**

2128331



**Robotic Arm**

2095023



**Hydraulic Arm**

2236922



**8-Ch. Remote Control Set**

2212365



**J-Bot**

2140285



**BBC micro:bit  
Microcontroller**

**NEW**  
MARKED IN PINK

Pocket-sized code-able microcontroller designed to make learning and teaching easy and fun for all sorts of cool creations from robots to musical instruments.

- Classroom-friendly, beginner oriented
- Web browser-based programming environment
- 25 red SMD LEDs in 5x5 LED matrix
- 32-bit ARM® M0 CPU, 16 MHz, 16K RAM
- Bluetooth LE Smart, 3-axis digital accelerometer
- 2 programmable buttons, 5 ring (3 I/O, PWR,GND), & 20-pin edge connector, micro-USB

Part No.	Mfr. Part No.	Price
2246434	83-17934	\$14.95



**AM/FM IC &  
Transistor Radio Kit**


Build the kit and follow the training course divided into 9 lessons: Audio amplifier, AM detector, AM IF, AM amplifier, AM mixer and oscillator, FM detector, 1st FM IF, 2nd FM IF, and FM RF Stages.

- Switchable between modern integrated circuit tech to original transistor technology
- Ideal for classrooms and labs

**Includes:** Radio mounting stand

**NEW**  
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Part No.	Mfr. Part No.	1	5
2244893	AMFM108CK	\$37.95	\$35.95





**MadLab Electronic Kits**

**\*Web Code: MLP**

MadLab offers a range of electronic kits suitable for beginners needing practice at soldering up to advanced for expert constructors. Each kit comes with a professional printed circuit board, components and full assembly instructions. Soldering tools and batteries are required.

Part No.	Mfr. Part No.	Description	Exp. Level	Price
2251735	MLP107	My Little Alien: LED eyes, 7pcs, 9V battery required	Beginner	\$14.95
2251874	MLP109	Electric Telegraph: practice morse, 9V bat. required	Beginner	19.95
2251840	MLP105	Junior Theremin: touchless musical instrument, 9V required	Intermediate	19.95

**Electronic Kits**

**\*Web Code: ERK**

**Robotic and Computer Control Kits**

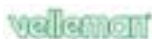
Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5
2190717	ROBO103	DIY Spider Robot using your controller (Romeo recommended)	70	BEG	6.0 x 4.0 x 3.0	0.6	\$5.95	\$5.59
181833	VM-2	DC Voltage Monitor kit with 7 LED display. Monitor 12V, 8V or 5V in 1/4V steps	46	BEG	2.7 x 1.3	0.2	9.95	8.95
239476	K2633	4-Channel Relay Card. Max load 240VAC/3A resistive. Requires 9VDC/0.3A power supply	49	BEG	3.0 x 2.7 x 1.0	0.4	15.95	14.49
2111960	535-USB	USB Arm controller for P/N 2095023	1	BEG	5.5 x 1.8 x 7.5	0.3	39.95	35.95
2236922	OWI-632	Hydraulic Arm. 6-axes of movement powered by water pressure. No batteries required! Ages 10+	229	BEG	15.6 x 11.4 x 4.1	8.0	39.95	37.95
2150619	RS014-USB	2-in-1 Mini Robots include IR compound eye, 4 mini servos and universal remote. Tools included	22	BEG	3.0 x 3.0 x 5.0	1.0	59.95	54.95
200328	MK127	Light-Following Running Micro Bug kit	26	INT	4.0 x 2.4	0.2	9.95	9.25
200336	MK129	Light-Seeking Crawling Micro Bug kit	29	INT	4.0 x 2.4	0.2	13.95	12.49
386708	21-880	Line Tracking Robot Mouse (solder required)	130	INT	3.0 x 3.0 x 3.0	0.9	22.95	20.95
2130600	K8015	Multi-function Relay Switch with 14 different functions and pushbutton control	37	INT	3.4 x 1.5 x 1.0	0.5	24.95	22.49
2123936	MK-179	RFID Proximity Card Reader kit, include 2 tags EM4100 compatible	52	INT	2.6 x 2.4 x 0.8	0.5	24.95	23.95
2128374	21-531N	Titan Tank kit, IR remote control, 4-ch selection for battle, 4xAAA & 4xAAA batteries required	121	INT	6.5 x 6.5 x 3.6	1.5	36.95	33.49
2128331	OWI-536	3-In-1 All Terrain Tracked Robot; transform to a forklift, rover or gripper; wired remote control	120+	INT	—	2.2	39.95	38.95
2095023	OWI-535	Robotic Arm. 5 DoF, base rotates 270°. Lifts 100g, 12.6" reach	87	INT	6.3 x 15.0 x 9.0	2.5	44.95	42.95
2150580	RS002	Mr. General mobile robot platform features compound IR eye, 2 servos for pan/tilt and 2 cont. rotation servos. MCU & batteries not included	206	INT	7.5 x 4.8 x 4.0	1.5	59.95	54.95
2212365	VM118	8-Channel RF Remote Control Set. 433 MHz, 165' open range. Relay: 230VAC/5A max. (assembled)	2	INT	5.9 x 2.3 x 0.9	1.1	124.95	119.95
2140285	J-BOT	Build your very own customizable robot with ultrasonic sensors, 4WD platform, breadboard, MotorShield kit and much more	22	INT	9.5 x 7.0 x 8.0	3.6	149.95	134.95

See page 128 for Reinforced Jumper Wires.

\*For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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## Electronic Kits (Continued)



### Robotic and Computer Control Kits (Continued)

★ Web Code: ERK

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5
2157116	258	Egg-Bot Deluxe is an open-source robotic arm that can draw on spherical shapes like eggs, ping-pong balls, golf balls and Christmas ornaments up to 4.25" diameter. No soldering/programming required. PC/Mac required to create designs.	126	INT	11 x 7.5 x 6.0	2.8	\$199.95	\$189.95
386610	21-886	Terrain Escape Robot kit with infrared emitting diode and receiver module (4 x AAA required)	86	EXP	5.0 x 5.0 x 5.0	0.9	21.95	19.95



2157116



386610



2136956



2131012

### Audio Transmitters, Amplifier, Sound Generator and Detection Kits

★ Web Code: AAK

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5
2136956	MK104	Electronic Cricket kit. Activated by darkness; effect, tone and light sensitivity adjustable	25	BEG	2.2 x 1.6 x 1.0	0.11	\$6.99	\$6.39
2131012	MK120	Infrared Light Barrier kit with 85dB audible alarm and visible LED alert	46	BEG	2.2 x 1.6/3.9 x 2.0	0.18	8.95	8.49
2130731	MK171	Voice Changer kit. Add effects to your voice with robotic, vibrato, high-low effects and more.	36	BEG	3.0 x 1.8	0.11	9.49	8.65
2130984	MK136	Super Stereo Ear audio amplifier boosts sound up to 50 times louder	35	BEG	2.4 x 2.1 x 1.7	0.15	10.59	9.95
2130870	MK113	Siren Sound Generator. 4 different sounds with pitch adj. (9V required)	17	BEG	2.4 x 1.6	0.1	12.49	11.49
2196588	MK190	2x5 watt amplifier: 3.5mm stereo input jack, screw terminal output	25	BEG	2.6 x 2.1 x 1.0	0.2	12.95	11.69
2123944	MK-182	Digital Echo Chamber kit. Echo effect, line-in & out, output 8Ω, 500mW (9V required)	63	BEG	3.35 x 2.76 x 0.78	0.5	15.95	14.59
147571	MK103	Voice Activated kit. Requires 8-15VDC Power Supply or 9V battery, sound activates 4 flashing LEDs	33	INT	2.5 x 1.6 x 1.4	0.1	4.95	4.59
117612	K1803	Univ. Mono Pre-Amp kit (req. 10-30VDC pwr supply)	17	INT	1.2 x 1.8	0.3	6.95	6.25
127255	K4001	7-Watt Amplifier kit. Requires 15VDC @ 500mA power supply, music output power: 7 watts, 4Ω	22	INT	2.2 x 1.4	0.3	8.95	7.95
662670	EBST-11	Audio Stereo Amplifier kit. 1 watt (9V required)	32	INT	2.8 x 2.3	0.2	11.95	10.95
151204	AA-1	Super Snooper Big Ear Audio Amplifier kit (9V req.)	17	INT	1.8 x 1.0 x 0.6	0.1	12.95	11.49
129138	K4003	30W Stereo Pwr Amp. (req. 1x 24VCT @ 2A pwr supplies)	38	INT	2.8 x 2.0	0.7	23.95	21.95
127562	K4401	Sound Generator kit with 10 unique sounds	61	INT	2.8 x 2.8	0.4	28.95	26.95
151239	FMST-100	FM Stereo Transmitter Mini kit, 9V battery	37	INT	2.7 x 2.0	0.2	29.95	27.95
2120815	K8098	Audio Analyzer, display EMS/peak power, mean/peak dB, audio spectrum	73	EXP	5.0 x 2.5 LCD	0.6	59.95	54.95



2130984



2130731



2130870



2196588



2123944



117612

### Test and Measurement Kits

★ Web Code: TMK

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5
2136930	MK105	Signal Generator. 1KHz fixed freq. 0-100mVrms pot adj. 9V battery required	30	BEG	2.2 x 1.6	0.1	\$6.19	\$5.65
662725	EBLOG-300A	Logic Probe kit. 3V-16VDC, detect high, low, pulse signal	14	BEG	4.0"L x 0.75"Dia.	0.1	10.95	9.95
2175568	EDU06	Oscilloscope Tutor: Learn about AC, DC, sine and square waves, power supply ripple, full and half-wave rectifiers, oscillators and more. O-scope required.	37	BEG	4.6 x 2.9 x 0.9	0.3	29.95	28.95
2181343	M-2666K	Deluxe Digital Multimeter kit. 3½-digit display and AC/DC current up to 20A	135	BEG	7.5 x 3.5 x 1.3	1.8	39.95	37.95
129091	K7102	Metal Detector kit. Sensitive within 8cm (req. 9V battery)	22	INT	2.1 x 2.1	0.4	13.95	13.49
20685	JE2206	Function Generator kit. 1-100kHz in 4 ranges	21	INT	4.1 x 1.5	0.1	29.95	26.95
2191251	EDU09	Educational PC Oscilloscope. DIY 200kHz o-scope, spectrum analyser, transient recorder. Windows PC compatible. USB, SVGA, mouse required.	97	INT	3.7 x 3.7 x 1.0	0.5	45.95	39.95



662670



151239



129138



2191251



127562



2120815



2136930



662725



2175568



129091





## Electronic Kits (Continued)



### Power Supply and Motor Kits

★ Web Code: PSM

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5
2115750	34020	Breadboard Vreg kit. 6-18Vin, 5V @ .5A out, 2.1mm jack	12	BEG	2.2 x 0.6	0.1	\$7.95	\$7.49
2184229	815	16-channel 12-bit PWM/servo driver with I <sup>2</sup> C interface. PCA9685. 5V tolerant	7	BEG	2.5 x 1.0	0.1	14.95	13.49
117621	K1823	1.5A @ 1.5-35VDC Power Supply kit	12	INT	2.1 x 2.1	0.3	8.89	7.89
2137166	K8042	Symmetric 1A Power Supply kit. Output of 1.2-18VDC depends on AC transformer (not incl.) see web	46	INT	3.1 x 2.0 x 0.9	0.5	11.95	10.85
20626	JE215	Dual Adjust Regulated Power Supply kit, 5-15VDC	48	INT	5.1 x 3.5 x 2.0	2.1	29.95	26.95
2245167	OWI-633	Magnetic Levitation Train. Experiment with how MagLev trains work. 2xAAA battery req. Ages 8+	155	INT	29 x 18 x 1.4	2.8	57.95	54.95
120539	K8004	DC Pulse Width kit. Proportional DC to PWM	40	EXP	3.3 x 1.9 x 1.8	0.5	16.95	15.49

### Distance and Light Kits

★ Web Code: DLK

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5
2130933	MK147	Dual white LED stroboscope creates a powerful flash effect. Speed adjustable 1-60 flashes/sec. 9V battery not included.	21	BEG	2.2 x 1.3 x 1.6	0.1	\$4.69	\$4.29
147635	MK100	Flashing Christmas Tree kit. 16 LEDs, 9V battery req.	30	BEG	4.0 x 2.4 x 1.0	0.1	5.95	5.49
2131207	MK135	Electronic Decision Maker kit. Rapidly flashes lights until it slowly stops at one	19	BEG	2.2 x 1.2 x 1.4	0.1	6.79	6.19
2196490	MK141	SMD Happy Face. Great surface mount beginner kit	14	BEG	1.1" Dia.	0.1	6.99	6.39
2136972	MK109	Electronic Dice simulates the roll of a die and generates a random number	13	BEG	2.4 x 1.7	0.1	8.59	7.89
2136964	MK131	4-way Traffic Light kit. 12 LEDs with realistic operating and adjustable delay	63	BEG	2.0 x 1.4 x 4.5	0.2	8.99	8.29
2136999	MK112	Electronic Brain Game kit just like Simon Says. Visible/audible modes. 4 skill levels. 3xAA not included.	28	BEG	2.0 x 2.6	0.2	8.99	8.29
2130802	MK150	Shaking Dice kit. Just give it a shake and the LEDs will automatically light a value	23	BEG	3.0 x 1.8	0.2	9.25	8.29
236081	MK145	Halloween Pumpkin with 25 yellow LEDs	71	BEG	2.48 x 2.24	0.2	11.89	10.19
2137191	MK119	Game of Roulette. 37 LEDs, a spinning sound and "winner" tune for each color. Pushbutton operation	66	BEG	3.6 x 1.3	0.2	21.95	19.95
2128286	MK172	Sound Star VU-meter with 60 LEDs and microphone. Use 9-12VDC	109	BEG	4.2 x 4.4 x 1.4	0.2	22.95	20.95
147580	MK102	Flashing LED kit. 2 red 5mm LEDs, 9V battery req.	23	INT	1.3 x 1.4 x 0.6	0.1	3.95	3.59
147555	MK101	Flashing LED Sweetheart kit. Flashes 25 T1 (3mm) red LEDs, 9V battery required	46	INT	1.3 x 2.3 x 1.3	0.1	7.19	6.59
211781	MK130	3D Flashing Christmas Tree kit. 16 LEDs	36	INT	3.1 x 3.5 x 4.0	0.1	7.95	7.49
200310	MK124	Scrolling Message kit. 16 characters	76	INT	3.5 x 2.6 x 1.8	0.2	18.49	16.88



2136999



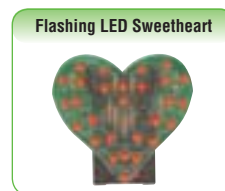
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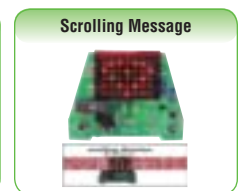
2137191



2128286



147555



200310



### Junior Genius Blinky Lights Kit

Learn about voltage and current by using LEDs, resistors, capacitors and transistors. A great introduction to the world of electronics for both students and adults!

- Great kit for electronic beginners
- 10 core activities using standard breadboard parts

Part No.	Mfr. Part No.	Exp. Level	No. of Pcs.	Price
2237141	JRG01-KIT	Beginner	28	\$24.90



Hook-Up Wire,  
Paired Cable,  
Speaker Wire  
and more  
see pages 41-42



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## Electronic Kits (Continued)

**NEW**  
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★ Web Code: **NRG**

### Alternative Energy – No Batteries Required

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5
<b>2112014</b>	OWI-MSK671	Super Solar Racing Car for ages 10 and up. Assembly is a snap. 1.1VDC panel & motor	11	BEG	2.1 x 1.0 x 0.6	0.2	\$9.95	\$9.49
<b>2112006</b>	MSK670	Frightened Grasshopper kit. Solar powered	7	BEG	1.75 x 1.0 x 0.6	0.1	9.95	8.95
<b>2128340</b>	OWI-750	Salt Water Fuel Cell Car. Magnesium metal sheet (3 incl.), provides 5-7 hrs continuous play	20	BEG	3.0 x 1.6 x 0.7	0.5	13.95	12.39
<b>2218716</b>	OWI-MSK617	T4 Transforming Solar Robot. Build 4 bots	67	BEG	5.4 x 3.1 x 2.0	0.6	16.95	16.09
<b>2097521</b>	MSK610	6-in-1 Educational Solar kit. Create a solar car, airboat, windmill & more. No tools required	33	BEG	4.75 x 2.4 x 3.4	0.5	18.95	17.29
<b>2245132</b>	MSK684	Captain Roam-E-O rover robot. Mini solar 6 wheeled, 4WD ATV. Ages 8+	67	BEG	4.1 x 3.0 x 3.1	0.5	19.95	17.95
<b>2245141</b>	OWI-MSK640	7-in-1 Solar Rechargeable Transformer. Build a solar car, race car, bulldozer, dump truck & more.	—	BEG	—	—	26.95	25.49
<b>2192333</b>	MSK615	14-in-1 Educational Solar Robot. Build a variety of crafts or insects powered by the sun. Ages 10+	210	BEG	—	1.2	29.95	28.49
<b>2245159</b>	OWI-MSK641	7-in-1 Solar Rechargeable Space Fleet. Build a station, rover, explorer, space dog & more.	—	BEG	—	—	29.95	28.49



**2112014**



**2112006**



**2218716**



**2097521**



**2245132**



**2192333**

### Time and Clock Kits

★ Web Code: **TCK**

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5
<b>2244922</b>	3296	DS1307 Real Time Clock breakout board. I <sup>2</sup> C 0x68	2	BEG	1.0 x 0.9 x 0.2	0.1	\$7.95	\$7.55
<b>2157079</b>	MTRTC001	ChronoDot Real Time Clock module (DS3231SN)	4	BEG	1.2"Dia.	0.4	18.95	16.95
<b>2187323</b>	MK188	1 second to 60 hour pulse-pause timer. Relay: 16A max. Use 12-24VDC via terminals	30	BEG	3.2 x 1.8 x 0.9	0.2	18.89	17.15
<b>2130520</b>	VM141	Start-Stop Timer kit with a wide timing range, easy time setting, LED animation during operation and on-board start-stop buttons	40	BEG	2.8 x 1.8 x 0.8	0.2	31.69	28.85
<b>2207831</b>	ANGCLKV1	Angular Clock uses analog panel meters to display time. Clear acrylic enclosure	48	BEG	7.0 x 2.5 x 2.5	0.8	59.95	54.95
<b>2246813</b>	495	Solder:Time wristwatch. DS1337+ RTC based and is hackable. CR2032 last approx. 10 days	27	INT	2.4 dia x 0.6H	0.1	36.95	34.95
<b>2136569</b>	950+966	Desk/mantle LED shadow clock w/ 12 red, 30 green & 30 blue LEDs to mark hours, minutes & seconds	147	INT	8.8 x 2.3 x 4.5	1.1	84.95	79.95



**2245141**



**2245159**

### Miscellaneous

★ Web Code: **ERK**

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5
<b>2161617</b>	SP-1A	Learn to Solder Flashing Siren kit. Same as P/N <b>2124218</b> (below), w/o 25W iron and wire cutters	23	BEG	4.9 x 2.5	0.3	\$8.95	\$8.25
<b>2124218</b>	MKEL4	The Learn to Solder Flashing Siren kit teaches you the basics of soldering & includes 25W iron, wire cutters and solder. 9V battery not included	25	BEG	4.9 x 2.5	0.8	14.95	13.95
<b>2214483</b>	SM200K	Learn and practice soldering SMT with the Surface Mount Technology kit	38	BEG	4.5 x 3.0	0.3	21.95	19.95
<b>2124200</b>	FO-30K	This kit teaches the fundamentals of fiber optics. You can transmit your voice or a 1kHz signal through the 3 ft. fiber optic cable	56	BEG	Rx: 1.3 x 4 x 1 Tx: 1.3 x 4 x 1	0.4	24.95	22.49
<b>2225115</b>	KIT-GSE BUNDLE	Parts bundle for Getting Started with Electronics book by Øyvind Nydal Dahl (book not included)	120	BEG	—	0.9	34.95	31.49
<b>2143865</b>	ROV5-1	Rover 5 Tracked Chassis. Height adjustable by 1.5" and has max speed of 10 in/sec. 87:1 gears.	5	BEG	9.5 x 9.0 x 3.0	2.2	39.95	35.95
<b>2119662</b>	SL004	Electronics Discovery kit. 16+ projects to work with LEDs, switches, buttons & sensors	130	BEG	10 x 6.7 x 3.0	1.1	54.95	49.95
<b>2169504</b>	CJKIT-20906	Electronics for "Prank Box" project (see Web)	11	INT	—	1.9	29.95	26.95



**2157079**



**2187323**



**2130520**



**2207831**



**2246813**



**2136569**



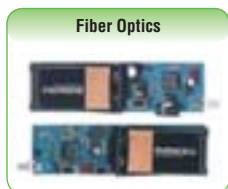
**2161617**



**2124218**



**2214483**



**2124200**



**2143865**



**2169504**

# Arduino Boards, Shields & Accessories



## Arduino Microcontrollers, Kits, Shields & Accessories

Arduino is an open-source physical computing platform based on a simple microcontroller board. Create interactive objects that can read inputs from a variety of switches, sensors and computers to control lights, motors and other physical outputs. The shields are expansion boards that sit atop an Arduino and broaden the functions, from motor control to prototyping.

**NEW**  
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### Microcontroller Boards

\* Web Code: **ARD**

Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	Pricing	
					1	5
<a href="#">2151259</a>	KitPro	BB-Arduino	Build an Arduino compatible circuit, Atmega328P, assembly required, breadboard/PCB not included	—	<b>\$10.95</b>	<b>\$9.95</b>
<a href="#">2115768</a>	Solarbotics	KARDW	Ardweeny microcontroller kit, Arduino compatible, Atmega328, 7+ pieces, assembly/soldering required	1.6"L x 0.5"W	12.95	11.95
<a href="#">2213325</a>	DFRobot	DFR0282	Beetle MCU. Arduino-compatible, ATmega32u4, 16MHz, 10 digital, 5 analog	0.8"L x 0.9"W	9.95	8.69
<a href="#">2157765</a>	DFRobot	DFR0159	DFRduino Pro Mini V1.2 (Arduino Pro Mini compatible) MCU board with 16MHz ATmega328, 14 digital I/O pins, 8 analog inputs, reset button, and holes for mounting pin headers	1.3"L x 0.7"W	13.95	13.59
<a href="#">2240083</a>	Adafruit	2821	Feather Huzzah MCU, ESP8266 WiFi, LiPo charge circuit, 9 GPIO, 4MB flash	3.0 x 0.9 x 0.3	16.95	—
<a href="#">2244421</a>	Adafruit	3046	Feather Huzzah board w/ ESP8266 WiFi & headers installed. 80MHz, 3.3V, 9xGPIO, built-in LiPo charger	2.0 x 0.9 x 0.3	19.95	—
<a href="#">2240091</a>	Adafruit	2680	Internet of Things (IoT) starter kit with Feather ESP8266 WiFi MCU, PIR, magnetic & vibration sensors & more	—	39.95	37.95
<a href="#">2151486</a>	Arduino	A000066	Uno Rev. 3, Atmega328 (DIP), 14 digital I/O, 6 analog I/O, USB, ICSP, 32K flash	2.7"L x 2.1"W	23.49	—
<a href="#">2163840</a>	Arduino	A000073	Uno SMD Rev. 3, same as Rev.2 but has ATmega16U2 USB Serial converter & 1.0 pinout, USB-B	2.7"L x 2.1"W	21.95	21.49
<a href="#">2163778</a>	Arduino	A000057	Leonardo with headers, 20 digital I/Os, 7 PWM channels, 16MHz crystal, 32k flash, 2.5k SRAM, microUSB	2.7"L x 2.1"W	20.49	19.95
<a href="#">2239331</a>	Intel	ATLASEDGE.1	Intel Arduino 101, 32-bit, Bluetooth LE, 6-axis gyro. ARC core, 14 digital I/O (4 PWM)	2.7"L x 2.1"W	28.95	—
<a href="#">2170222</a>	Arduino	A000062	Due, with 32-bit ARM core MCU, 54 digital I/Os, 12 analog inputs, 4 UARTs, 84MHz clock, 512kB flash	4.3"L x 2.1"W	38.59	37.95
<a href="#">2121148</a>	Arduino	A000005	Nano v3.1, ATmega328, 14 digital I/O (6 PWM), 8 analog input, 0.6" wide breadboard-ready, USB mini-B	0.7"L x 1.7"W	20.95	19.95
<a href="#">2152366</a>	Arduino	A000067	Mega2560 Rev. 3, 54 digital I/O (14 PWM), 16 analog input, 256K flash. ATmega16U2 USB-Serial converter	4.3 x 2.1 x 0.6	38.49	—
<a href="#">2246178</a>	Arduino	A000138	Arduino Primo Core wearable MCU. nRF52832 for BT 4.0 Smart, NFC, temp, humidity, 3-axis accelerometer	1.26"Dia.	38.95	36.95
<a href="#">2246160</a>	Arduino	A000135	Arduino Primo with nRF52832 for BT 4.0 Smart, NFC, ESP8266 WiFi, 14 digital I/O, 6 analog in, 5V, LiPo batt. charger	2.7"L x 2.1"W	49.95	47.95
<a href="#">2193441</a>	Arduino	A000008	Yún. Built in Ethernet & WiFi, µSD slot, 20 digital I/O. Atheros AR9331 runs Linux	2.7"L x 2.1"W	69.95	66.49
<a href="#">2213261</a>	DFRobot	DFR0100	Beginner Kit for Arduino: DFRduino Uno R3, proto shield, USB cable, breadboard, sensors, power and passive components, 8 online starter lessons	—	49.89	45.59
<a href="#">2121121</a>	KitPro	KIT-GSA	Get Started w/ Arduino kit, includes book, Arduino Uno, breadboard, LEDs, switches. No solder required	—	69.95	66.49
<a href="#">2199543</a>	KitPro	KIT-AC-OSHG	Absolute Beginners Savings Arduino kit, includes Arduino Uno R3, breadboard, resistors, LEDs, switches, jumper wires and USB cable. Courses at <a href="https://opensourcehardwaregroup.com">opensourcehardwaregroup.com</a>	2.7"L x 2.1"W	59.95	56.95
<a href="#">2217473</a>	Seeed Studios	KIT11021P	Grove Starter Kit includes shield w/ 16 Grove headers and 15 sensor/actuator modules & project guide	—	29.95	28.49
<a href="#">2212007</a>	Adafruit	170	Experimentation Arduino kit, includes Arduino prototyping bundle, experimenter's guide, cables & many other passives	2.7"L x 2.1"W	89.95	88.95
<a href="#">2171188</a>	Arduino	K000007	Arduino Starter kit includes Uno Rev. 3 & 38 other components w/ book of 15 projects to learn and build	—	85.79	84.75

### Shields for Arduino (Arduino sold separately)

\* Web Code: **AOS**

Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	Pricing	
					1	5
<a href="#">2237554</a>	ValuePro	UNO BASE	Acrylic base plate for Arduino Uno & 400 point breadboard. Base only with 4 rubber feet	4.7 x 3.3 x 0.3	<b>\$2.95</b>	<b>\$2.65</b>
<a href="#">2159277</a>	DFRobot	DFR0019	Prototyping shield with mini breadboard. SOIC-14 pad, ICSP header, GND/5V rails (assembled)	2.7"L x 2.1"W	10.95	9.79
<a href="#">2152411</a>	Arduino	A000080	MEGA Rev. 3 Protoshield printed circuit board, PCB only. Make your own mega shield.	4.0"L x 2.1"W	4.95	4.75
<a href="#">2144534</a>	DFRobot	DFR0060	Screw Shield for Arduino. Convert female header pins to more secure screw terminals.	2.7"L x 1"W (x2)	7.49	6.49
<a href="#">2159314</a>	DFRobot	DFR0131	Proto Screw Shield (assembled). Provides prototyping area & screw terminals for secure I/O connections.	2.7"L x 3.2"W	12.79	11.29
<a href="#">2184202</a>	Adafruit	1141	Data Logging Shield. Built in RTC & µSD slot, 3.3Vreg. Additional libraries required.	2.7"L x 2.1"W	13.89	12.49
<a href="#">2152260</a>	DFRobot	DFR0144	Relay Shield controls up to 4 relays. Max. switching power: DC 90W or AC 360VA. Controllable with Arduino, Xbee or Bluetooth.	3.3"L x 2.2"W	14.49	13.95
<a href="#">2167744</a>	DFRobot	DFR0071	SD Card Breakout Shield for standard SD and microSD cards. Switch-selectable, allows mass storage	1.5"L x 1.2"W	9.59	8.49
<a href="#">2144411</a>	DFRobot	DFR0009	LCD Shield. 16x2, HD44780 compatible. White text, blue backlight, uses LCD4Bit library	2.7"L x 2.1"W	10.95	10.49
<a href="#">2229221</a>	Adafruit	MS-5V-KIT	Arduino Motor Shield Kit, 4H-Bridges, L293D chipset, 2 connections, 5V. Use Adafruit Library.	2.7"L x 2.1"W	<b>9.95</b>	<b>8.95</b>
<a href="#">2193651</a>	Adafruit	1438	Motor/Stepper/Servo Shield v2.0. Supports 4 DC or 2 stepper motors. 4 H-bridges; 1.2A per bridge	2.7 x 2.1 x 0.4	19.79	17.99
<a href="#">2259024</a>	OSEPP	SCSHD-01	Motor and servo shield with two L293D quad H-bridges	2.7"L x 2.1"W	19.95	—
<a href="#">2152403</a>	Arduino	A000079	Arduino MotorShield Rev. 3. Dual full-bridge for inductive loads like relays, solenoids, DC/Stepping motors. 2A per channel, 4A max.	2.7"L x 2.1"W	21.95	20.95
<a href="#">2157829</a>	DFRobot	DRI0009	2-Amp Motor Shield. Allows drive of two 7-12VDC motors with 2A maximum current each way	2.3"L x 2.2"W	15.95	14.29
<a href="#">2245474</a>	Velleman	VMA412	2.8" Touchscreen Shield for Arduino Uno and Mega2560, 320 x 240 RGB, microSD slot for Uno	3.1"L x 2.1"W	19.95	18.95

Edu & Hobby

\* For additional products, availability and specifications visit [Jameco.com](https://www.jameco.com) and enter the Web Code in the product search box



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# Arduino Sensors, Accessories & Mobile Platforms

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	SPECIAL BUY

## Arduino Kits, Shields & Accessories (Continued)



## Sensors, Accessories and Miscellaneous Kits

★ Web Code: AOA

Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	Pricing	
					1	5
2137756	Arduino	A000040	Stackable female header kit for shields. (2) 1 x 6 pos & (2) 1 x 8 pos, 15mm pin length, 0.1" spacing	—	\$1.95	\$1.75
2261343	KitPro	UNO-R3-STACK-HDR	Stackable female header kit for R3 shields. (2) 1x8 pos, (1) 1x6 pos, (1) 1x10 pos, 15mm pin len.	—	2.49	2.25
2217705	Seeed Studios	ACC113170	Universal 4-pin 2mm pitch connecting cable for Grove sensors & modules. Five 20cm cables per pack	7.8"L x 0.32"W	2.95	2.65
2245458	Velleman	VMA315	2-axis joystick modules. X-axis and Y-axis with a push-down microswitch. 2 pack. 3-5VDC. Arduino-compatible	1.85 x 1.0 x 1.26	6.95	6.49
2159381	DFRobot	SEN0114	Soil moisture sensor. Reads moisture present, includes analog sensor cable	2.4 x 0.8 x 0.35	4.79	4.55
2159373	DFRobot	SEN0101	Color sensor with RGB sensor chip and 4 white LEDs. Digital TTL interface, 2.7-5.5V, TCS3200	1.2 x 1.2 x 0.6	7.89	7.35
2184288	Adafruit	1260	FLORA RGB Smart Neo Pixel v2 (4 pack). 24-bit, 5-9VDC, daisy-chainable. 18mA constant current per LED	0.5"Dia.	9.95	9.49
2157845	DFRobot	DFR0077	RS-232 to TTL converter. 4-pin connection: 5V, GND, logic in (SRX), logic out (STX), 300 to 115200 bauds	1.7 x 1.4 x 0.5	7.95	7.19
2245221	Arduino	M000015	ABS project enclosure for Arduino boards. Fits R3 Uno boards and Mega2560 and Ethernet shield	4.4 x 2.4 x 1.1	7.95	7.19
2260842	Seeed Studio	COM22639P	Grove relay module. Digital normally open switch. 250VAC/30VDC @ 5A. For Arduino, Raspberry Pi	1.7 x 0.9 x 0.8	2.89	2.59
2236965	Keyes	K853518	Ambient light sensor with 8" cable. JST connector to three breadboard-ready pins, 5VDC	1.0"L x .75"W	2.49	2.25
2229343	Pololu	QTR-1A	Sensor, reflectance, 5.0V @ 17mA, analog, .125" distance (2 pack). Supplied with straight & right angle headers	0.5"L x 0.3"W	3.95	3.59
2152315	DFRobot	DFR0107	IR remote and receiver kit. Includes 3-wire cable. Arduino compatible	3.4 x 1.6 x 0.3	7.49	7.19
2150441	Dagu	RS002A	Compound infrared sensor can be used as a range finder or movement tracker within 200mm, 4 pairs of IR phototransistors and (4) IR LEDs	1.9 x 1.2 x 0.5	6.95	6.25
2144462	DFRobot	SEN0019	Adjustable IR sensor switch. 3-80cm range, 5V@100mA. 18" cable with 3-pin connector.	1.76"L x 0.70"Dia.	7.49	7.25
2213413	DFRobot	SEN0018	Digital infrared sensor: 3V/5V @ 40µA, 110° detection angle, 23 ft. max distance, HIGH/LOW output level	1.4 x 1.1 x 0.3	5.59	5.15
2245440	Velleman	VMA314	PIR motion sensor, 5V, digital, 22.75 feet max range, adjustable sensitivity, 3-pin, Arduino-compatible	1.26 x 0.95 x 0.98	6.95	6.49
2206150	ValuePro	U13-C0441	PIR motion sensor, 3V/5V @ 150µA max. Range: 0.25-19.5 ft. Hold time: 1-25 sec. Detection angle: 120°	1.6 x 0.8 x 0.4	7.95	7.19
2246725	ValuePro	157004	PIR motion sensor, 5V, digital output, 2-450 cm detection, adjustable sensitivity, 3-pin, Arduino-compatible	1.3 x 0.9 x 1.0	7.95	7.09
2230088	ValuePro	PIR-GB	Compact PIR sensor, 9-12V with 4.5 leads, for hobbyist and CCTV. 3-pin (power/ground/signal)	1.4 x 1.4 x 1.0	3.95	3.59
2245407	Velleman	VMA306	Ultrasonic distance sensor. HC-SR05, 4.5-5.5VDC, 40 kHz, 2-450 cm detection, 15 degree FOV, 5-pin	1.8 x 0.8 x 0.5	4.95	4.69
2237845	Seeed Studio	101020010	Grove ultrasonic ranger distance sensor. 5VDC, 1.1" to 13" in 30° angle, Arduino Library ready	0.6 x 2.0 x 1.0	14.89	13.49
2240171	DFRobot	SEN0192	Gravity: Digital microwave sensor for motion detection. 5V, 2-6 meter continuous, 10.525GHz, 3-pin digital	1.9 x 2.5 x 0.4	19.95	18.95
2159453	DFRobot	DFR0028	Digital tilt sensor mercury switch. (Gravity line), 3-pin connection, 3v3/5V. Arduino & Pi compatible	1.2 x 0.8 x 0.35	1.95	1.75
2134993	ValuePro	PROTO KIT	830-contact breadboard with 70-piece jumper wire kit for easy prototyping	6.5 x 2.5 x 0.3	12.95	11.95
2245212	Arduino	A000107	Arduino USB 2 Serial Micro adapter for programming Arduino Mini and similar boards. GND/5V/Tx/Rx	1.7"L x 1.0"W	10.69	10.35
2152243	DFRobot	DFR0065	FTDI basic breakout board for USB to serial communication. Uses DTR pin for hardware auto-reset when a new sketch is downloaded	1.6 x 0.8 x 0.4	12.95	12.19
2117341	Solarbotics	50512	Basic breakout board. 3.3/5V, FTDI mini USB-B to serial 6-pin, works w/ Arduino & clone 5V Arduino boards can use as a USB port, FT232RL chip	1.4 x 0.7 x 0.3	19.95	17.95
2159496	DFRobot	DFR0126	Digital audio analyzer w/ graphic equalizer display filter giving your Arduino ears. Can be read in 7 different frequency bands	1.2 x 0.8 x 0.3	17.95	16.75
2213368	DFRobot	DFR0067	DHT11 temperature and humidity sensor. 3.3V/5V, 0°-50°C ±2°C, 20-90%RH ±5%RH, 3-pin digital output	1.3 x 0.9 x 0.3	5.19	4.55
2217625	ValuePro	800116001	Mini DS3231 RTC with super capacitor. Raspberry Pi ready. SIP-5 breakout	0.6 x 0.6 x 0.5	4.95	4.49
2144489	ValuePro	2601510235340Z	Conductive sewing thread. Size 92, 234/34 (4 ply), 50Ω/meter. Perfect for Lilypad or wearables	300'+ reel	34.95	31.49
2230871	Seeed Studios	110060024	Grove sensor starter kit. Includes base shield, LCD, relay, buzzer, button, cables and five other sensors	—	34.95	—
2167761	DFRobot	KIT0011	24-piece advanced sensor set, including sensors such as light, gas, sound, touch, accelerometer, and more	—	79.95	71.95
2228869	Seeed Studios	SLD01093P	2.04" E-ink display shield for Arduino, 172 x 72 resolution. Supports 175 languages	2.71"W x 2.1"H	19.95	17.95
2215232	Adafruit	1947	2.8" Color TFT Touchscreen, Arduino compatible, 18-bit GPU, 320x240 pixels, 262k color, LED backlit	2.73 x 1.98 x 0.15	44.49	42.19

## Chassis/Mobile Platforms and Accessories

★ Web Code: MOB

Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	Pricing	
					1	5
2190717	DFRobot	ROB0103	DIY Spider Robot chassis. Does not include microcontroller or sensors. Small parts, assembly required.	7.1 x 9.4 x 2.4	\$5.95	\$5.59
2210001	Dagu	DG007	Magician acrylic chassis. (2) gear motors w/ 65mm wheels & rear caster. 6VDC, 90 rpm. 4xAA required	6.85"L x 4.33"W	19.95	17.95
2229204	DFRobot*	ROB0005-VP	2WD aluminum mobile platform with (2) 3-6VDC motors, 90 RPM/160 RPM (bulk bagged/no retail box)	7.9 x 6.7 x 4.1	19.95	17.95
2150539	Dagu	RS011MC	4 channel DC motor controller with encoder support. 4A/channel. Designed for Rover 5 chassis (2143865)	3.75"L x 2.75"W	21.95	19.95
2150547	Dagu	DG008	4WD plastic mobile platform with (4) 4.5V motors. No load speed is 90 ±10 rpm	6.25"L x 5.0"W	26.95	23.95
2229212	DFRobot*	ROB0003-VP	4WD aluminum mobile platform with (4) 3-6VDC motors, speed: ~35"/sec. (bulk bagged/no retail box)	7.9 x 6.7 x 4.1	29.95	26.95
2143865	Dagu	RS011-0/2	Rover 5 Tracked Chassis. Height adjusts by 1.5", max speed of 10"/sec. 87:1 gears. Uses 6xAA batteries	9.5 x 9.0 x 3.0	39.95	35.95
2259032	OSEPP	ROB-01	101 Robotics Kit Basics. Alum. chassis, motors, infrared sensors. Learn how to navigate w/ included lessons.	—	148.95	139.95
2259059	OSEPP	LS-CAB4P-08	8" 4-pin I <sup>2</sup> C connector female/female cables (4 pack). For OSEPP boards/sensors	8.0"L x 0.4"W	6.95	6.25

\*Bulk bagged/no retail box



# Parallax Kits, Sensors, RFID Products & Wireless Interface Devices

## PARALLAX Kits, Sensors and Modules

Parallax provides the electronics industry and hobbyists with products that are technically innovative, unique and economical. Parallax designs and manufactures microcontrollers and development software, SX chips and programmers/ debuggers, Propeller chips and tools, project boards, robotics kits, educational tools and sensors. Not sure where to begin? Try a starter kit to familiarize yourself with the BASIC Stamp or Propeller microcontroller.

### BASIC Stamp and Propeller Series Kits

★ Web Code: MBS

Part No.	Mfr. Part No.	Description	1	5
<a href="#">387997</a>	28832	USB Boe-Bot full kit, completely reprogrammable and uses a BASIC Stamp module, expandable for different robotic projects	\$144.49	\$142.95
<a href="#">2109165</a>	28803	Board of Education full kit, USB version, includes carrier board, BASIC Stamp 2 module, designed for those already familiar with programming Stamp modules	99.95	89.95
<a href="#">2109202</a>	90005	BASIC Stamp Activity kit, learn electronics and programming, includes What's a Microcontroller? guide, components for over 40 hands-on activities, USB to serial adapter and homework board w/ BASIC Stamp 2 MCU	79.95	74.95
<a href="#">2191998</a>	32500	ActivityBot Robot kit teaches programming the multicore Propeller in C with easy to follow tutorials. High speed servos with optical encoders, PING sensor, mini audio jack & XBee header. No soldering required.	198.95	194.95
<a href="#">2237861</a>	32600	ActivityBot 360° Robot Kit. Easy to program visually with browser-based BlocklyProp. Build the bot, then program the multicore Propeller chip. Great STEM learning project and geared for ages 14+.	199.95	194.95



### Sensors, Modules and Accessories

For more Sensors, see pgs 73-74 & 140

★ Web Code: PKS

Part No.	Mfr. Part No.	Description	1	5
<a href="#">2111935</a>	32213	X-band motion detector. Detection from 8-30ft. 10.525GHz, 4-pin SIP interface, 5VDC	\$39.95	\$37.95
<a href="#">282861</a>	28015	PING Ultrasonic Range/Distance Finder, 0.5" – 10 ft., 5VDC, 3-pin header	26.95	25.95
<a href="#">2230070</a>	CM-38R1	420 line 1/3" CCD black/white camera with 3.6mm lens	8.95	7.95
<a href="#">2230061</a>	M13N1Y	420 line 1/3" CCD black/white camera with 5mm pinhole lens	8.95	7.95
<a href="#">2109245</a>	28031	USB to Serial (RS-232) Adapter, DB9 male socket, includes USB-A to mini-B cable, USB 1.1 and 2.0 compatible	19.95	17.95
<a href="#">2109456</a>	28030	USB to serial (RS-232) adapter, DB9 male & USB mini-B port, use cable P/N 673694	17.95	17.49
<a href="#">2150256</a>	28995	Sharp IR distance sensor GP2Y0A21YK0F, 10-80cm, 5V operation, 3-pin JST male header	9.95	8.95
<a href="#">2111901</a>	29132	Sound impact sensor detects sound from up to 3m away, 3-pin SIP, 5V, digital output	9.95	9.49
<a href="#">2205018</a>	28032	Wide angle PIR sensor, 180°, range up to 30 ft., 3-6VDC	12.95	11.65
<a href="#">2082927</a>	555-28027	PIR Sensor kit, single bit high/low output, detection range up to 20 ft.	12.95	12.25
<a href="#">2082855</a>	27800	Modular 2-axis joystick, dual 10k pot with common ground, 1.64" x 1.2" x 1.1"	6.49	6.35
<a href="#">2109763</a>	605-00004	Piezo film vibration sensor, use as flexible switch, freq. response device	2.95	2.79



## PARALLAX RFID, Wireless Interface Devices & Embedded Networking Solutions

Use these modules for a variety of hobbyist and commercial applications, including data storage, access control, user identification, robotics navigation, inventory tracking, payment systems, car immobilization or security systems.

### RFID Read/Write Modules and Tags

★ Web Code: RAD

Part No.	Mfr. Part No.	Description	1	5
<a href="#">2007177</a>	32395	RFID Reader kit, USB card reader, includes 4 different passive tags	\$59.95	\$56.95



### Wireless Interface Devices

★ Web Code: WID

Part No.	Mfr. Part No.	Description	1	5
<a href="#">2160753</a>	F301-SGP-D024-01	10-position single row female header with 2mm pin spacing, mates w/ Xbee chips	\$ .99	\$ .89
<a href="#">2159331</a>	TEL0002	USB Bluetooth v2.0 dongle, PC/MAC compatible, 33' range max. upto 3 Mbps	3.89	3.59
<a href="#">2244869</a>	2471	Adafruit HUZZAH ESP8266 WiFi breakout board, 9 GPIO, 3-6 Vin, 2x UART	9.95	9.49
<a href="#">2193731</a>	700-10016	Wireless key fob remote, 433MHz, 4-channel control, 30' range, 5V, "learn" feature	15.95	14.95
<a href="#">2113375</a>	32404	XBee PCB antenna, 1mW, 2.4GHz, 300' line of sight, 802.15.4 network	24.95	24.49



★ USB Cables — Enter Web Code NAV

## adafruit Wireless Internet of Things and Electromechanical Products

The Feather HUZZAH ESP8266 board is light, small and designed for untethered projects using the built-in ESP8266 WiFi module. The IoT starter kit enhances the Feather with some elements like sensors and LEDs to experiment with your first IoT project. And don't forget a slip ring for your "rolly" projects, so they can freely twist and turn without tangling up the wires.

★ Web Code: ARD

Part No.	Mfr. Part No.	Description	Price
<a href="#">2240083</a>	2821	Feather HUZZAH MCU, ESP8266 WiFi, LiPo charge circuit, 9 GPIO, 4MB flash, 2" x 0.9" x 0.3" .....	\$16.95
<a href="#">2244421</a>	3046	Feather HUZZAH MCU, ESP8266 WiFi, LiPo charger, 9xGPIO, 4MB flash, 2" x 0.9" x 0.3" (assembled)	19.95
<a href="#">2240091</a>	2680	IoT starter kit w/ Feather MCU, PIR, magnetic & vibration sensor, plus more .....	39.95
<a href="#">2240075</a>	736	Slip ring with flange, 22mm dia., 6 wires, 6' long (26 AWG), 240V/2A .....	15.95



2240091

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## DIY Workshop Kits & Club Jameco Projects

★ Web Code: FMB

### Forrest M. Mims III Kits

See complete kit descriptions online, additional parts may be required

Part No.	Description	1	5
2155487	Atari Punk Console Kit: Sound synthesizer based on the 555 timer	\$26.95	\$24.95

### Circuit Skills Web Supported Kits & Projects

★ Web Code: ERK

Part No.	Description	1	5
2113244	Etch your own printed circuit board. Includes (2) 3"x4" pre-coated boards & etch solution*	\$49.95	\$44.95
2117202	Build a waveform generator and learn the basics for laying out an enclosure. Soldering required.	69.95	62.95
2121092	Build a basic guitar effect pedal while learning the basics for perfboard prototyping. Soldering required.	24.95	23.95
2126272	Learn the basic functionality of an LED Color Organ ("sound-to-light") circuit. 3.5mm audio jack input.	34.95	29.95

\*Shipped via ground to continental U.S. only

### Jameco Builds

★ Web Code: ERK

Part No.	Description	Price
2216606	Simple dual jumbo red LED flasher. Potentiometer adjustable flash rate. 14 components. Mountable. Use 9V battery.	\$5.95
2217174	Simple dual jumbo red LED flasher breadboard project. Like 2216606, but no soldering involved. 9V battery required.	5.95
2244535	Simple dual jumbo orange LED flasher breadboard project. No soldering required. Use 9V battery.	6.95
2244543	Simple dual jumbo yellow LED flasher breadboard project. No soldering required. Use 9V battery.	6.95
2244551	Simple dual jumbo green LED flasher breadboard project. No soldering required. Use 9V battery.	6.95
2244560	Simple dual jumbo blue LED flasher breadboard project. No soldering required. Use 9V battery.	6.95
2260990	Barebones 8x8x8 LED Cube parts kit. 512 LEDs, enclosure, power supply and Arduino Uno not included.	79.95
2155516	Build a compact USB charger w/ 5V output to charge small electronic devices. Soldering required.	14.95
2155541	LED Color Organ Kit: Similar to 2126272 but includes PCB with labels. Mono channel.	34.95
2217078	8-digit LED Clock Kit. Open-source Arduino-compatible design. 12/24 hr, 12 hr AM/PM, date, stop watch modes included.	69.95
2146329	4x4x4 LED Cube Kit: Advanced solder kit requires AVR programming for blue LED display visuals.	79.95
2210651	8x8x8 Blue LED Cube w/ custom PCBs + 50 LEDs. Boards stack like shields on top of the Arduino Uno. Enclosure not included.	149.95
2210669	8x8x8 White LED Cube w/ custom PCBs + 50 LEDs. Boards stack like shields on top of the Arduino Uno. Enclosure not included.	149.95
2192309	Construct a simple DC motor. Classroom pack for 20 students. (For single kit, use P/N 2192296)	99.95

### Club Jameco Projects

Earn with Club Jameco [www.ClubJameco.com/Earn](http://www.ClubJameco.com/Earn)

★ Web Code: CLK

Part No.	Description	Price
2160817	Super Simple Low Power AM Radio Kit: Learn basic RF concepts with this breadboard project.	\$14.95
2243840	555 Timer Super combo of parts to compliment the online 555 Timer Tutorial (see Web for more details)	17.95
2169580	Easy Laser Alarm Kit: Senses light from a laser on a photocell to sound a buzzer when the beam is broken.	19.95
2169109	Water Level Control: Sense high/low and trigger a relay (Pump not included)	24.95
2244666	Component bundle for the Ultimate Beginner's Guide to the 555 Timer book found on Amazon.	29.95
2168325	Metronome Kit: 7-seg display shows beats/min and allows you to switch between different time signatures.	29.95
2170812	DIY geiger counter uses a PIN photodiode as a substitute for a Geiger-Mueller tube. Detect alpha and beta particles.	32.95
2182661	Tripple Power Supply with Digital Monitor: Turn an unregulated 9V transformer into three selectable. regulated output voltages of 5V, 9V and 12V.	36.95
2160681	Transformer Kit: Learn how to wind a simple step-up or step-down transformer	34.95
2190178	PID Temp. Controller: Designed around the ATmega328P microcontroller utilizing the Arduino Duemilanove bootloader.	39.95
2190080	Vein Finder: Uses bright red LEDs to illuminate your veins!	39.95
2247322	Infinity Mirror v2.0: Arduino controlled or self-control red, green and blue colors	59.95
2215398	Infinity Mirror electronic parts kit with individually addressable NeoPixel LEDs, Arduino & power supply	79.95
2168309	Fun Light Switch Box: Behavior of the lights vary depending on how the switches are set.	69.95
2218847	4x4x4 RGB LED Cube Kit: Arduino Nano drives the charlieplexed LED array. Libraries online.	74.95
2168940	8x8x8 LED Cube: Includes 550 3mm blue LEDs. Driven by included Arduino Uno (Programming required)	149.95
2169539	8x8x8 LED Cube: Includes 550 3mm white LEDs. Driven by included Arduino Uno (Programming required)	149.95



### Jameco's Workshop

Scan on your smartphone with a code reader app.

NEW MARKED IN PINK



2155487



2117202



2113244



2121092



2216606



2217174



2244535



2244551



2260990



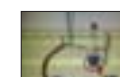
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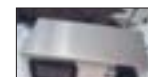
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2170812



2182661



2160681



2190178



2190080



2247322



2168309



2218847



## Raspberry Pi and Accessories

★ Web Code: RPI

2237790



2240219



2223785



2213472



Part No.	Mfr. Part No.	Description	Price
2237790	83-17300	Raspberry Pi 3 model B, 1GB RAM @ 900MHz, quad core 1.2GHz, BCM2837, 40 GPIO header, Ethernet and WiFi	\$49.95
2240219	RASP13-BUNDLE	Starter accessory bundle (Pi 3 model B, USB power supply, enclosure, heatsink and USB, HDMI, Ethernet and GPIO cables) & T-shaped break out	79.95
2223785	2258	Enclosure for Pi 3 with smoked black enclosure with clear top. 3.7" x 2.5" x 1.0"	9.95
2213472	FIT0367	Self-adhesive pure copper heatsink. Perfect for Raspberry Pi CPUs or other SMT components like stepper drivers. 0.48" x 0.43" x 0.18". 10 grams	1.19



## MONDO•TRONICS

## Flexinol® Shape Memory Alloy Actuator Wires

Small diameter nickel-titanium wires contract like muscles when electrically driven.

- LT (low-temp) activate at 70°C
- HT (high-temp) activate at 90°C

**Includes:** Instructions and technical specs.

\* Web Code: WAU



141874



357835



Part No.	Mfr. P/N	Length (meter)	Wire Dia. (microns)	Linear Resistance (Ω/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing	
									1	5
357595	100HT	1	100	150	180	28	150	43	\$9.95	\$8.95
357472	100LT	5	100	150	180	28	150	33	26.95	24.95
141874	150LT	1	150	50	400	62	330	20	9.95	8.95
160055	375LT	1	375	8	2750	393	2000	4	10.95	9.95

\* Multiply by 0.0098 to get force in Newtons

\*\* Cycles per minute, in still air, at 20° Centigrade

## Nitinol Wire, Springs and Muscle Wire Kits

\* Web Code: WAU

Part No.	Mfr. Part No.	Description	1	5
357835	3-642	Nitinol tension springs (4pk.) 6.5mm OD x 26.5mm L x 750µm, black	\$39.95	\$35.95
357659	3-141	Project Book Sample kit (20cm of 50µm flexinol wire; 40cm of 100µm and 150µm LT wire)	27.95	24.95
357641	3-136	Muscle Wire Super Sampler kit (20cm each of 037, 050, 100, 150, 250µm)	35.95	31.95

Hook-Up Wire, Bus Bar, Magnet Wire and more on pages 42-44

## PowerFilm. Flexible Thin Film Solar Modules

\* Web Code: AEK

**Wireless Electronics Series** The Wireless Electronics Series offers a new opportunity to solve the old problem of limited power for wireless electronics in portable and remote applications. These modules are lightweight, paper thin and durable.

227985



Part No.	Mfr. Part No.	Operating Voltage	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	5	25
227985	SP3-37	3.0	22	2.5 x 1.5 x .01	64 x 37 x 0.2	\$3.95	\$3.59	\$3.29
227993	TX3-25	3.0	25	4.5 x 1.0 x .01	114 x 25 x 0.2	4.95	4.49	3.95
171061	MP3-37	3.0	50	4.5 x 1.5 x .01	114 x 37 x 0.2	5.95	5.39	4.79
228030	SP4.2-37	4.2	22	3.3 x 1.5 x .01	84 x 37 x 0.2	4.95	4.49	3.95
228064	MPT6-75	6.0	50	4.5 x 3.0 x .01	114 x 75 x 0.2	12.95	11.49	9.95
228072	MPT6-150	6.0	100	4.5 x 5.9 x .01	114 x 150 x 0.2	19.95	17.95	15.95
228101	MPT15-75	15.4	50	10 x 3.0 x .02	253 x 75 x 0.6	24.95	22.49	19.95
228110	MPT15-150	15.4	100	10 x 5.9 x .02	253 x 150 x 0.6	39.95	35.95	31.95



## 6kV-7.4kV High Voltage Power Supply

- Input voltage range: 113VAC to 132VAC
- Input lead wires: 22 AWG UL1015, 7.5"L; AC hot (black), AC COM (white), HV RTN (green)
- Output voltage: 6.0kV to 7.4kV
- Output lead wires: 22 AWG UL3239, 10" (pink)
- UL94V-0 rated encapsulant filled epoxy
- Size: 3.0"L x 1.2"W x 1.0"H

Part No.	Mfr. Part No.	Description	1	10	50	100
2100136	CS2080A3	High voltage power supply	\$4.49	\$3.49	\$2.95	\$2.59



## Data/Voice Coupling Transformer

- Turns ratio: 1:1 ±2%
- DC current: 90mA
- Operating level: -45dBm to +10dBm
- Primary impedance: 600Ω
- Secondary impedance: 600Ω
- DC resistance: 71Ω (pri) 117Ω (sec.)
- Longitudinal balance: 60dB min. @ 200 to 4kHz
- Safety approval: UL1459, CSA C22.2
- Dimension: 21.3mmL x 16mmW x 19mmH



Part No.	Mfr. Part No.	1	10	100
2210992	TTC-105	\$4.49	\$3.95	\$3.59

## HOW TO USE A BREADBOARD

Make:



Learn how to make electronic circuits on a breadboard with 10 fun and challenging projects you can build yourself. Get the bundle if you need the electronic components.

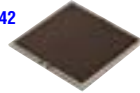
Part No.	Mfr. Part No.	Description	Price
2245968	9781680453607	Book	\$9.95
2246485	KIT-MAKE-BBHBK	Kit with book	\$9.95

## Solar Panels

\* Web Code: AEK

- 1928142:** • 6" leads
- Power output: 0.25W max.
- Output: 3.2VDC @ 80mA
- Size: 2.36"L x 2.36"W x 0.1"Thick

1928142



- 2260041:** • 20" leads
- Power output: 0.9W max.
- Output: 6VDC @ 150mA
- Size: 3.5"L x 3.0"W

2260041



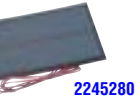
- 2245298:** • 20" wire leads
- Power output: 1.6W max.
- Output: 6V @ 270mA
- Size: 5.1"L x 3.3"W

2245298



- 2245280:** • 20" wire leads
- Power output: 1.7W max.
- Output: 7V @ 250mA
- Size: 5.5"L x 3.2"W

2245280



Part No.	Description	1	5	25
1928142	Solder tabs on back	\$5.95	\$5.35	\$4.79
2260041	With alligator clips	9.95	8.95	7.95
2245298	With alligator clips	14.49	12.95	11.65
2245280	With alligator clips	15.95	14.49	12.95

## Mini-Panel Solar Cells

\* Web Code: AEK

**Ready to Use! No Soldering**

Mini-panels are secured in a plastic body with a prismatic cover to help capture all available light. 6" red/black wires attached.

2136913



**2113666:** Solar Cell Grab Bag

- Contains fragile cells of various sizes with 0.5V output
- No leads attached and requires soldering

2113666



Part No.	Mfr. P/N	VDC @ mA	Size (L" x W")	1	5
2136921	SOL3	1.0 @ 200	3.0 x 1.8	\$5.95	\$5.49
2210079	FAD-1	1.2 @ 75	1.2 x 0.7	3.95	3.55
2260949	FAD-1††	1.2 @ 75	1.2 x 0.7	4.49	3.95
215319	4-3.0-100	3.0 @ 100	3.8 x 2.5	12.95	11.49
215327	4-6.0-50	6.0 @ 50	3.8 x 2.5	14.95	13.49
2221456	PEP20*	6.0 @ 150	4.0 x 3.0	14.95	13.49
2113666	SC-GRAB	Solar cell grab bag	(min. 40pcs/bag, sizes vary)	9.95	8.95

\* Alligator clip leads †† Mfr. P/N: FAD-1-W/PINS, breadboard pin leads

## 12 Cell Monocrystal Solar Panel

- Rated voltage: 5.8V - 6.9V
- Power: 103.5 mW
- Rated current: 15 mA
- 4 Solder terminals on back
- Open circuit voltage: 7.2V
- Open circuit current: 17-20 mA



Part No.	Mfr. Part No.	Size (L" x W" x H")	Price
2162572	RU6715	1.5 x 1.3 x 0.1	\$1.95

## Forrest M. Mims III Engineer's Guides

Forrest M. Mims III Engineer's Guide to Electronics Volume I: Timer, Op Amp, Optoelectronic Circuits and Projects (See web for bundles)

\* Web Code: FMB



Part No.	Description	Price
2112743	Volume I	\$15.95

\* For additional products, availability and specifications visit [Jameco.com](http://Jameco.com) and enter the Web Code in the product search box

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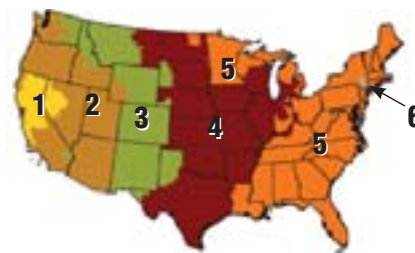
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## 80mW 12mm Linear Taper (5%)

- Total rotational angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Flat/D shaft: 0.235"D x 0.335"L
- Max. working volt. 150V • Termination: solder lugs

Use **2182688** for additional PNL MNT hardware, pg 78

Type	1	10	100	500
Single	\$1.95	\$1.75	\$1.59	\$1.39
Dual	3.95	3.29	2.79	2.49

Part No.	Mfr. Part No.	Pot	Terminals	Ohms
2269079	RV120F-10-15F-B1K	Single	Solder	1k
2269087	RV120F-10-15F-B5K	Single	Solder	5k
2269095	RV120F-10-15F-B10K	Single	Solder	10k
2272559	RV120F-10-15F-B50K	Single	Solder	50k
2269103	RV120F-10-15F-B100K	Single	Solder	100k
2272295	RV120F-10-15F-B500K	Single	Solder	500k
2269111	RV120F-10-15F-B1M	Single	Solder	1M
2268599	RV120F-20-15F-B1K	Single	PCB	1k
2268591	RV120F-20-15F-B5K	Single	PCB	5k
2269039	RV120F-20-15F-B10K	Single	PCB	10k
2272551	RV120F-20-15F-B50K	Single	PCB	50k
2269047	RV120F-20-15F-B100K	Single	PCB	100k
2268583	RV120F-20-15F-B500K	Single	PCB	500k
2268575	RV120F-20-15F-B1M	Single	PCB	1M
2269055	RV122F-20-15F-B1K	Dual	PCB	1k
2268519	RV122F-20-15F-B5K	Dual	PCB	5k
2269063	RV122F-20-15F-B10K	Dual	PCB	10k
2269071	RV122F-20-15F-B100K	Dual	PCB	100k
2268511	RV122F-20-15F-B500K	Dual	PCB	500k
2268535	RV122F-20-15F-B1M	Dual	PCB	1M

## 200mW 16mm Linear Taper with DPDT Switch (±20%)

- Total rotation angle: 300 (±5°)
- Slide noise: less than 47mV
- Switch rating: 30VDC, 0.3A
- Rated wattage: temperature 0-50°C 2.0W

Use **2182688** (M7) for additional PNL MNT hardware, pg 78

Quantity	1	10	100	500
Pricing	\$3.95	\$3.59	\$3.29	\$2.95

Part No.	Mfr. Part No.	Termination	Ohms
2268767	RV16BF-10-15R1-B1K	Solder	1k
2268783	RV16BF-10-15R1-B5K	Solder	5k
2268879	RV16BF-10-15R1-B10K	Solder	10k
2268791	RV16BF-10-15R1-B100K	Solder	100k
2227111	RV16BF-10-15R1-B500K	Solder	500k
2268807	RV16BF-10-15R1-B1M	Solder	1M
2268823	RV16BF-20-15R1-B5K	PCB	5k
2268775	RV16BF-20-15R1-B250K	PCB	250k

## 1/2 Watt 24mm Linear Taper with SPST/SPDT Switch (±20%)

- Round shaft: 0.25"D x .335"L
- Terminal type: solder lugs
- Switch rating: 125VAC, 1A
- Max. volt.: 500V • Rotational angle: 300° (±5°)

Use **2182602** (M8) panel mounting hardware, pg 78

Type	1	10	100	500
Single-Pole Single-Throw	\$3.49	\$2.95	\$2.69	\$2.29
Single-Pole Double-Throw	3.95	3.29	2.89	2.49

Part No.	Mfr. Part No.	Switch	Ohms
263768	RV24A01F-10-15R1-B1K	SPST	1k
2272319	RV24A01F-10-15R1-B2.5K	SPST	2.5k
2268895	RV24A01F-10-15R1-B5K	SPST	5k
263792	RV24A01F-10-15R1-B10K	SPST	10k
263822	RV24A01F-10-15R1-B100K	SPST	100k
2268903	RV24A01F-10-15R1-B1M	SPST	1M
2272183	RV24A02F-10-15S1-B10K	SPDT	10k
2272191	RV24A02F-10-15S1-B25K	SPDT	25k
2265719	RV24A02F-10-15S1-B50K	SPDT	50k
2268663	RV24A02F-10-15S1-B250K	SPDT	250k
2268671	RV24A02F-10-15S1-B500K	SPDT	500k

## 1/8W 16mm Linear Taper (±20%)

- Rated voltage: 200V
- Shaft diameter: 0.250"
- Insulation resis.: >100MΩ @ 500VDC

Use **2182688** for additional PNL MTG hardware, pg 78

Shaft Length	1	10	100	500
0.335"	\$1.49	\$1.25	\$1.09	\$0.89
0.531"	1.69	1.35	1.19	.99

Part No.	Mfr. Part No.	Type	Shaft L	Ohms
286249	RV16AF-10-15R1-B1K <sup>1</sup>	Round	0.335"	1k
2272407	RV16AF-10-15R1-B2K <sup>1</sup>	Round	0.335"	2k
286265	RV16AF-10-15R1-B5K <sup>1</sup>	Round	0.335"	5k
286273	RV16AF-10-15R1-B10K <sup>1</sup>	Round	0.335"	10k
163563	PMD401K (10 detents) <sup>1</sup>	Round	0.335"	10k
2272415	RV16AF-10-15R1-B20K <sup>1</sup>	Round	0.335"	20k
286282	RV16AF-10-15R1-B25K <sup>1</sup>	Round	0.335"	25k
2236375	RV16AF-10-15R1-B50K <sup>1</sup>	Round	0.335"	50k
286302	RV16AF-10-15R1-B100K <sup>1</sup>	Round	0.335"	100k
2268631	RV16AF-10-15R1-B150K <sup>1</sup>	Round	0.335"	150k
286311	RV16AF-10-15R1-B250K <sup>1</sup>	Round	0.335"	250k
2272439	RV16AF-10-15R1-B500K <sup>1</sup>	Round	0.335"	500k
286337	RV16AF-10-15R1-B1M <sup>1</sup>	Round	0.335"	1M
2269951	RV16AF-10-15R1-B1.2M <sup>1</sup>	Round	0.335"	1.2M
2269143	RV16AF-10-20R1-B1K <sup>1</sup>	Round	0.531"	1k
2269231	RV16AF-10-20R1-B5K <sup>1</sup>	Round	0.531"	5k
286206	RV16AF-10-20R1-B10K <sup>1</sup>	Round	0.531"	10k
286214	RV16AF-10-20R1-B50K <sup>1</sup>	Round	0.531"	50k
2269239	RV16AF-10-20R1-B100K <sup>1</sup>	Round	0.531"	100k
2269247	RV16AF-10-20R1-B1M <sup>1</sup>	Round	0.531"	1M
2268815	RV16A03-10-15R1-B1M <sup>3</sup>	Round	0.335"	1M
2246750	RV16AF-20-15K-B1K <sup>*2</sup>	Round	0.335"	1k
2246741	RV16AF-20-15K-B5K <sup>*2</sup>	Round	0.335"	5k
2246320	RV16AF-20-15K-B10K <sup>2</sup>	Knurl	0.335"	10k
2269159	RV16AF-20-15K-B10K <sup>2</sup>	Round	0.335"	10k
2246768	RV16AF-20-15R1-B100K <sup>2</sup>	Round	0.335"	100k
2269167	RV16AF-20-15R1-B1M <sup>2</sup>	Round	0.335"	1M

<sup>1</sup> Breadboard 0.1" spacing <sup>2</sup> Solder lug <sup>3</sup> PCB terminal <sup>\*</sup> With SPST switch

## 1/4 Watt 24mm Audio Taper (±20%)

- Shaft: 0.25"Dia. x 0.335"L
- Solder lug termination
- Max. voltage: 250V
- Rotational stop
- Rotational angle: 300° (±5°)

Use **2182602** (M8) panel mounting hardware, pg 78

Type	1	10	100	500
SGL (Single)	\$1.79	\$1.59	\$1.29	\$1.15
Dual	3.95	3.39	2.79	2.39

Part No.	Mfr. Part No.	Term./Type*	Watt	Ohms
2265703	RV24AF-10-15F-A1K	D/SGL	1/4"	1k
2236383	RV24AF-10-15F-A5K	D/SGL	1/4"	5k
2269319	RV24AF-10-15F-A10K	D/SGL	1/4"	10k
2236341	RV24AF-10-15F-A50K	D/SGL	1/4"	50k
2269327	RV24AF-10-15F-A100K	D/SGL	1/4"	100k
2236295	RV24AF-10-15F-A250K	D/SGL	1/4"	250k
2236359	RV24AF-10-15F-A500K	D/SGL	1/4"	500k
2272359	RV24AF-10-15F-A1M	D/SGL	1/4"	1M
2269295	RV24AF-10-15R1-A1K	RND/SGL	1/4"	1k
2269303	RV24AF-10-15R1-A5K	RND/SGL	1/4"	5k
255426	RV24AF-10-15R1-A10K	RND/SGL	1/4"	10k
255434	RV24AF-10-15R1-A50K	RND/SGL	1/4"	50k
255442	RV24AF-10-15R1-A100K	RND/SGL	1/4"	100k
255451	RV24AF-10-15R1-A500K	RND/SGL	1/4"	500k
255469	RV24AF-10-15R1-A1M	RND/SGL	1/4"	1M
2181458	RV24BF-10-15R1-A1K	RND/Dual	1/4"	1k
2181466	RV24BF-10-15R1-A10K	RND/Dual	1/4"	10k
2181474	RV24BF-10-15R1-A100K	RND/Dual	1/4"	100k
2269335	RV24BF-10-15R1-A250K	RND/Dual	1/4"	250k
2272495	RV24BF-10-15R1-A500K	RND/Dual	1/4"	500k
2272487	RV24BF-10-15R1-A1M	RND/Dual	1/4"	1M

\* SGL = Single; RND = Round

## 1/2 Watt 24mm Linear Taper (±20%)

- Solder lug
- Shaft Diameter: 0.25"
- Max. voltage: 500V
- Rotational angle: 300° (±5°)
- Withstanding voltage for 1 minute: 500VAC

Use **2182602** (M8) panel mounting hardware, pg 78

Shaft/Type	1	10	100	500
0.335", 0.485"	\$1.79	\$1.49	\$1.29	\$1.15
0.531"	1.95	1.69	1.49	1.29
1.315"	2.25	1.89	1.65	1.49
0.335" (Dual)	3.95	3.39	2.79	2.49

Part No.	Mfr. Part No.	Type	Shaft L	Ohms
2236367	RV24AF-10-15F-B500	D	0.335"	500
2268615	RV24AF-10-15F-B1K	D	0.335"	1k
2268935	RV24AF-10-15F-B10K	D	0.335"	10k
2265711	RV24AF-10-15F-B25k	D	0.335"	25k
2272335	RV24AF-10-15F-B50k	D	0.335"	50k
2268951	RV24AF-10-15F-B100k	D	0.335"	100k
2272351	RV24AF-10-15F-B500k	D	0.335"	500k
2268959	RV24AF-10-15F-B1M	D	0.335"	1M
2236261	RV24AF-10-15F-B2M	D	0.335"	2M
2268495	RV24AF-10-15F-B5M	D	0.335"	5M
2133675	RV24AF-10-18F-B1K	D	0.485"	1k
255477	RV24AF-10-15R1-B500	Round	0.335"	500
255485	RV24AF-10-15R1-B1K	Round	0.335"	1k
255493	RV24AF-10-15R1-B2K	Round	0.335"	2k
255514	RV24AF-10-15R1-B5K	Round	0.335"	5k
255522	RV24AF-10-15R1-B10K	Round	0.335"	10k
255531	RV24AF-10-15R1-B25K	Round	0.335"	25k
255549	RV24AF-10-15R1-B50K	Round	0.335"	50k
255557	RV24AF-10-15R1-B100K	Round	0.335"	100k
255565	RV24AF-10-15R1-B250K	Round	0.335"	250k
255573	RV24AF-10-15R1-B500K	Round	0.335"	500k
255582	RV24AF-10-15R1-B1M	Round	0.335"	1M
2272343	RV24BF-10-15R1-B1K	RND/Dual	0.335"	1k
2272375	RV24BF-10-15R1-B10K	RND/Dual	0.335"	10k
2272383	RV24BF-10-15R1-B50K	RND/Dual	0.335"	50k
2272511	RV24BF-10-15R1-B100K	RND/Dual	0.335"	100k
2272391	RV24BF-10-15R1-B500K	RND/Dual	0.335"	500k
2272399	RV24BF-10-15R1-B1M	RND/Dual	0.335"	1M
264402	RV24AF-10-20K-B5K	Knurl	0.531"	5k
264411	RV24AF-10-20K-B10K	Knurl	0.531"	10k
2272575	RV24AF-10-20K-B50K	Knurl	0.531"	50k
264437	RV24AF-10-20K-B100K	Knurl	0.531"	100k
264445	RV24AF-10-20K-B250K	Knurl	0.531"	250k
2268711	RV24AF-10-20K-B2M	Knurl	0.531"	2M
2268911	RV24AF-10-40R1-B1K	Round	1.315"	1k
2268919	RV24AF-10-40R1-B5K	Round	1.315"	5k
255662	RV24AF-10-40R1-B10K	Round	1.315"	10k
255696	RV24AF-10-40R1-B100K	Round	1.315"	100k
2236316	RV24AF-10-40R1-B500k	Round	1.315"	500k
2268639	RV24AF-10-40R1-B5M	Round	1.315"	5M
2236279	RV24A-22-15R1-B200K*	RND/PCB	0.335"	200k
2236287	RV24A-22-15R1-B500K*	RND/PCB	0.335"	500k

\* PCB terminals RND = Round

## 5 Watt 24mm Linear Taper Wirewound (±20%)

- Temp. range: -10°C to +90°C
- Maximum panel thickness: 0.1"
- Shaft size: 0.235"Dia.
- Solder lug
- Total rotation angle: 300° ±5%

Use **2182602** for additional panel mounting hardware, pg 78

Part No.	Shaft	Length	Ohms	1	10	100	500
2234855	Knurl	.335*	25	.....	\$3.95	\$3.59	\$3.29
2272279	Round	.595†	50	.....	3.95	3.59	3.29
140514	Round	.595†	100	.....	3.95	3.59	3.29

\* Mounting hole: 0.3125" † Mounting hole: 0.375"

## 100mW 17mm Linear Taper (±20%)

- Shaft: .250" Diameter (round)
- Shaft: .235" Diameter (knurl)
- Oper. temp.: -10°C to 70°C
- Rotation life: 15,000 cycles
- Max. working voltage: 200V



2268647



Use 2182688 for additional PNL MNT hardware, pg 78

Quantity	1	10	100	500
Pricing	\$2.19	\$1.79	\$1.59	\$1.39

Part No.	Manufacturer Part No.	Type*	Shaft L.	Ohms
2272103	RV170F-10-15R1-B1K	SE/RND	0.335"	1k
2268647	RV170F-10-15R1-B2K	SE/RND	0.335"	2k
2272111	RV170F-10-15R1-B5K	SE/RND	0.335"	5k
2272119	RV170F-10-15R1-B10K	SE/RND	0.335"	10k
2272135	RV170F-10-15R1-B500K	SE/RND	0.335"	500k
2272127	RV170F-10-15R1-B1M	SE/RND	0.335"	1M
2268607	RV170F-20-20K-B1K	PCB/KNL	0.472"	1k
2268655	RV170F-20-20K-B10K	PCB/KNL	0.787"	10k
2272583	RV170F-24-15R1-B1K	PCB/RND	0.335"	1k
2272519	RV170F-24-15R1-B5K	PCB/RND	0.335"	5k
2272599	RV170F-24-15R1-B10K	PCB/RND	0.335"	10k
2272591	RV170F-24-15R1-B50K	PCB/RND	0.335"	50k

\*SE = Solder eyelet; RND = Round; KNL = Knurl

## 5-Volt 650nm Typical Wavelength Laser Diode

- Output power: < 5mW
- Input power: 150mW
- 2 wire connection

\*Web Code: LAZ



2239171

Part No.	Description	1	10	100
2246717	Red adjustable beam ..	\$12.95	\$11.95	\$10.95
2239171	Red crosshair beam .....	5.95	5.59	5.25

## AC-to-AC Wall Adapters

These AC to AC wall adapters convert common 120 volt AC mains down to lower voltages for use with electronic devices.

- Input voltage 120VAC @ 60Hz
- UL/CSA rated

Part No.	Output		Output Connector	Size (H" x W" x D")	Case Color	Pricing			
	Voltage @ Current	Power (W)				1	10	50	100
2236834	6V @ 1000mA	6	2.1mm x 5.5mm F	2.5 x 2.0 x 1.6	Black	\$9.95	\$8.95	\$7.95	\$6.95
2236842	6V @ 2000mA	12	2.1mm x 5.5mm F	2.5 x 2.0 x 1.6	Black	10.95	9.95	8.95	7.95
2270815	9V @ 1000mA#	9	2.1mm x 5.5mm F	3.2 x 2.1 x 1.9	Black	14.95	13.49	11.95	10.95
2231574	9V @ 1000mA	9	3.5mm male	2.5 x 2.0 x 1.6	Black	8.95	7.95	6.95	6.25
2270823	12V @ 1000mA#	12	2.1mm x 5.5mm F	3.2 x 2.1 x 1.9	Black	14.95	13.49	11.95	10.95
2236455	12V @ 1670mA	20	Screw terminals	3.2 x 2.2 x 1.9	White	11.95	10.95	9.95	8.95
2231591	18V @ 500mA	9	Stripped/tinned	2.5 x 2.0 x 1.6	Black	8.95	7.95	6.95	6.25
2270831	24V @ 500mA#	12	2.1mm x 5.5mm F	2.3 x 1.8 x 1.6	Black	14.95	13.49	11.95	10.95
2234193	24V @ 500mA	12	2.5mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	9.95	8.95	7.95	6.95



2231574

# Level VI efficiency

## 1VDC to 12VDC Bipolar & Unipolar Stepper Motors

Put your electronics world in motion with these motors! Great prices and excellent quality.

\*Web Code: UBN

Motors on pages 79-81

Part No.	Drive System	Rated Voltage	Holding Torque (g-cm)	Step Angle (°)	Phase Resis. (Ω)	Current (mA)	Phase Inductance (mH)	Shaft Diameter (in.)	Shaft Length (in.)	Pricing		
										1	5	25
2234476	Unipolar	12.00	6000	7.5	5.0	259	74	0.2	0.53	\$10.95	\$9.95	\$8.95
2245626	Bipolar	1.80	2243	1.8	1.2	1500	1.6	0.2	0.86	14.95	12.95	10.95
2245618	Bipolar	2.25	4079	1.8	1.5	15200	3.3	0.2	0.86	15.95	13.95	11.95
2245634	Bipolar	3.24	24473	1.8	2.7	1200	5	0.2	0.63	14.95	12.95	10.95
2234839	Bipolar	4.00	3600	1.8	4.0	1000	10	0.2	0.312	19.95	17.95	15.95
2245600	Bipolar	4.20	5500	1.8	2.8	1500	4.8	0.2	0.83	19.95	17.95	15.95
2245597	Bipolar	4.50	200	1.8	3.0	1500	6	0.2	0.83	21.95	19.95	17.95
2245589	Bipolar	4.50	6800	1.8	3.0	1500	6	0.2	0.86	21.95	19.95	17.95
2245642	Bipolar	14.00	2200	1.8	35.0	400	44	0.2	0.87	15.95	13.95	11.95



2245626

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### High-Power Enclosed Power Supplies

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*Please be aware that MEAN WELL plans to permanently discontinue the S-150 line of products and recommends new designs move to the more efficient LRS-150. S-150 products are still available online while supplies last.*

Part No.	Mfr. Part No.	Output		Efficiency (%)	Size (L" x W" x H")	Pricing	
		Voltage @ Current	Pwr. (W)			1	10
2257694	LRS-100-24	24V @ 4.5A	108	90	5.1 x 3.8 x 1.2	\$14.40	\$12.09
323732	RS-100-24	24V @ 4.5A	108	84	6.3 x 3.8 x 1.5	21.80	18.19
201971	S-100F-24	24V @ 4.5A	108	83	7.8 x 3.9 x 1.5	32.95	29.95
2257803	LRS-150F-24	24V @ 6.5A	156	89	6.3 x 3.8 x 1.2	19.80	16.75
2257740	LRS-150-24	24V @ 6.5A	156	89	6.3 x 3.8 x 1.2	17.60	14.75
323855	RS-150-24	24V @ 6.5A	156	86	7.8 x 3.9 x 1.5	23.40	19.49
123450	S-150-24	24V @ 6.5A	156	85	8.5 x 4.5 x 2.0	39.95	36.95



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### 120 & 220VAC Tubeaxial Fans



\*Web Code: ABJ

Part No.	Manufacturer	Mfr. Part No.	Voltage VAC	Size mm (W x H x D)	Air Flow CFM	Bearing	Connection	Pricing			
								1	10	50	100
2231734	Adda	AA8251HB-AT	120	80 x 80 x 25	21	Ball	Terminals	\$12.95	\$11.95	\$10.95	\$9.95
300389	Fulltech	UF80A11BTH	120	80 x 80 x 38	30	Ball	Terminals	15.95	14.49	12.95	11.49
2230678	Thermocool	G9225HAS	120	92 x 92 x 25	34	Sleeve	Terminals	10.95	9.95	8.95	7.95
303467	Sunon	SF11592A-1092HBL.GN	120	92 x 92 x 25	37	Ball	12" Leads	12.95	11.95	10.95	9.95
1810048	Sunon	SP101AT-1122HBL.GN	120	120 x 120 x 25	78	Ball	12" Leads	16.95	15.49	13.95	12.49
2230694	Thermocool	G12038MAB	120	120 x 120 x 38	85	Ball	Terminals	12.95	11.95	10.95	9.95
102884	Sunon	SP100A-1123XBT.GN	120	120 x 120 x 38	117	Ball	Terminals	14.95	13.95	12.95	11.95
2231726	Sunon	SP100A-1123XBL.GN	120	120 x 120 x 38	117	Ball	12" Leads	15.95	14.49	12.95	11.95
2230141	Fulltech	UF13A11BTH	120	127 x 127 x 38	120	Ball	Terminals	19.95	17.95	15.95	14.49
2258419	Fulltech	UF-12A1223BWH	115/220	120 x 120 x 38	92/106	Ball	Connection	15.95	14.49	12.95	11.49
102892	Sunon	DP200A-2123XBT.GN	220	120 x 120 x 38	117	Ball	Terminals	17.95	15.95	14.49	12.95
2230424	Common Wealth	FP-108EX(S-1)	220	172 x 150 x 51	210	Ball	Terminals	24.95	22.49	19.95	17.95



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